

Final Examinations of some Governorates.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلقة

1 Cairo Governorate

St. Joseph's Language School

#### Answer the following questions:

### Question

A

(A) (	ompl	ete	the	follo	wing	statements
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- 1. In solar cell ..... energy changes into ..... energy.
- 2. The monoatomic liquid is ......, while ..... is diatomic liquid.
- 3. The symbol of sodium is ....., while that of gold is .....
- 4. Heat transfers through solids by ....., while through liquids by .....

#### B Mention one difference between:

- 1. The electron and the proton.
- 2. Insects and arachnids.

### O Problem:

An object whose mass is 2 kg is moving at a speed of 5 m/sec. Calculate its kinetic energy.

#### Question

A Put (✓) or (寒):

- 1. An alloy of nickel chrome is used in making heating coils.
- 2. Birds migration is an example of structural adaptation.
- 3. Pine plant is from an angiosperms plants.
- 4. The energy level (N) is saturated by 32 electrons.
- 5. The ammonia molecule consists of one nitrogen atom and three hydrogen atoms. (

## B Write the electronic configuration of :

6. Sugary solution is a good conductor of electricity.

1. 35Cl

2. 20 Ne

 $3._{8}^{16}O$ 

### @ Problem :

A piece of iron, whose mass is 78 gm is placed in a measuring cylinder containing 40 cm<sup>3</sup> of water so water rises up to 50 cm<sup>3</sup>. Calculate the density of iron.

### Question

3

### M Give reasons for :

- 1. The freezer is placed at the top of the fridge.
- 2. Inert gases are chemically inactive elements.
- 3. The atom is electrically neutral.
- 4. Some animals hibernate in winter.

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مذا العمل خاص بموقع ذاكرولى التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلوم

### B Choose the correct answer:

- 1. The attraction forces among solid molecules are ......
  - a. strong.

b. weak.

- c. almost not found.
- 2. The front limbs of whale are modified into .....
  - a. legs.

b. wings.

- c. paddles.
- 3. Kinetic energy is changed in electric energy in ......
  - a. motor.

b. dynamo.

c. simple cell.

- 4. ..... is from micro-organisms.
  - a. Drosera

b. Euglena

Scolopendra

#### Define:

- 1. Melting point.
- 2. Potential energy.

#### Question



### Write the scientific term:

- 1. The ability to do work or to make a change.
- 2. The smallest building unit of matter which can exist freely.
- 3. The number of protons inside the nucleus.
- 4. The ability of some animals to change their colour to stimulate the environment.

### B Give an example for :

- 1. Very active metal.
- 2. Dicotyledon plant.
- 3. A rodent animal.
- 4. A solid substance which is soft at room temperature.

### What happens when ...?

- 1. You add 50 cm<sup>3</sup> of ethyl alcohol to 100 cm<sup>3</sup> of water.
- 2. The electron gains a quantum of energy.

### Cairo Governorate

Holy Family School

### Answer the following questions:

#### Question



### O Give one example for :

- 1. A substance that has low melting point.
- 2. A plant isn't distinguished into roots, leaves or stems.
- 3. A bird feeds on fish.
- 4. A solution that is good conductor of electricity.

المعاصر علوم لغات (Notebook) / ١ع/تيرم ١ (م: ١٥)





P.O.C.	Insect	Arachnid	
Example:	***************************************		
Number of jointed legs :	pairs	pairs	

### Question

### Write the scientific term:

- 1. The basic classification unit of the living organisms.
- 2. The sum of potential energy and kinetic energy.
- 3. The spaces among molecules.
- 4. Gases that their molecules are composed of one atom only.
- 5. Change of matter from solid state into liquid state.

#### B Correct the underlined words:

- 1. Ammonia molecule is composed of three atom(s).
- 2. Insectivorous plants absorb nitrogen to form fats.
- Celebration balloons are filled with hydrogen or oxygen gases.
- 4. The rule (2n<sup>2</sup>) is used to fill the energy levels with **protons**.
- 5. Friction generates (produces) light energy.

### Redraw the table then complete it:

P.O.C	Energy used	Energy produced
Photosynthesis:		
Dry cell :		***************************************

### Question

### Cross out the odd word:

- 1. Vougheir Bean Pea Wheat.
- 2.  $_{11}Na _{19}K _{12}Mg _{3}Li$
- Wood Cork Ice Nail.
- 4. Evaporation Hibernation Aestivation Birds migration.

### B Answer the following:

In the following atom  $\binom{27}{13}$ Al).

1. Draw the electronic configuration.	***************************************	
2. The atomic number =		
3. The mass number =		
4. Number of neutrons =		

What happens when ... ? Hot object touches a cold object.

3 Cairo Governorate

Al-Farouk Islamic Language School

### Answer the following questions:

#### Question



- Write the scientific term for each of the following:
  - 1. Ability to do work or cause change.
  - 2. The total number of protons and neutrons inside the nucleus.
  - 3. Animal that is considered an example for structural, functional and behavioural adaptations.
  - 4. The smallest unit of matter construction which reacts chemically.

#### B Choose the correct answer:

- 1. Heat transfers by radiation through .....
  - a. liquids only.

- b. gases only.
- c. material media and non-material ones.
- d. metals only.
- 2. From animals with internal support .....
  - a. octopus.
- b. fish.
- c. snail.
- d. jellyfish.

- 3. Silver is symbolized by .....
  - a. Hg
- b. S

c. Si

d. Ag

- 4. Chemical energy can be stored in .....
  - a. car battery.

b. stretched spring.

c. raising a load upwards.

- d. car lamps.
- 5. ..... is an example for plants that reproduce by spores.
  - a. Pine
- b. Bean
- c. Vougheir
- d. Wheat
- 6. An object of mass 2 kg is moving at a speed of 4 m/s, has kinetic energy .....
  - a. 16 J.
- b. 64 J.
- c. 32 J.
- d. 128 J.

### Copy the following table at your answer sheet, then complete it:

Technological applications	Resource of energy Permanent/Non-renewable	Effect on environment Polluted/Non-polluted
1. Coal fire		***************************************
2. Petroleum car engine		
3. Gas stove	************************************	
4. Solar heater		

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلق

- D Cross out the unsuitable word, then write the relation between the other words:
  - 1. Bean Pea Maize Pine Wheat.
  - 2. Petroleum Wood Cork Iron.
  - 3. Locust Mosquito Spider Cockroach Fly.

#### Question

2

- Complete the following statements:
  - 1. The front limbs of whale are modified into ...... to help it to ......
  - 2. When a body is raised up, the potential energy ....., while the kinetic energy .....
  - 3. ..... and ...... are examples for insectivorous plants.
- B Solve the following problem (Write all laws and measuring units used):

In an experiment to determine a liquid density, the following results are recorded:

- The mass of an empty cylinder = 65 gm.
- The mass of the cylinder containing liquid = 155 gm.
- The volume of the liquid measured by a graduated cylinder = 100 cm<sup>3</sup>. Calculate liquid density.
- "Each modification is for specific function" In a table, write the function of each of the following:
  - 1. Front teeth of hedgehog.
- 2. Wide indented beak of duck.

3. Pads of camel.

- 4. Beaks of hawks.
- D What happens in each of the following cases ... ?
  - 1. Leaving a piece of iron exposed to moist air for a period of time.
  - 2. Friction of the bicycle wheels to a rough surface.
  - When energy of an electron becomes larger than the energy of the level in which it rotates by an amount of energy equals a quantum.
  - 4. A ball is raised upwards, then it is left to fall downwards.

#### Question

3

- M Give reasons for each of the following:
  - 1. Atom is electrically neutral.
  - 2. Individuals of the same species have different characters.
  - 3. The heater is placed on the ground.
  - 4. Some species of birds migrate from their original habitats in winter.



### B Copy the following table at your answer sheet, then complete it:

Points of comparison	Ice	Water	Water vapour
1. Keeping shape and volume:		***************************************	
2. Intermolecular force:		311111111111111111111111111111111111111	***************************************

### Rewrite the underlined words in following sentences after correcting:

- 1. Neutrons are positively charged.
- 2. Fuel energy is considered from the clean energy resources.
- 3. Bean plant is considered from monocotyledons.
- 4. Oxygen gas is an inert gas that couldn't share in chemical reactions at normal conditions.

### (B) What suits from (A):

(A)	(B)
1. Density measuring unit	a. conduction.
2. Travelling of solar heat to the Earth	b. cm <sup>3</sup>
3. Substances conduct heat and electricity	c. radiation.
4. Factors affecting kinetic energy of an object	d. copper and iron.
5. Volume measuring unit	e. gm.
6. Simple cell is an example for energy transformation	f. gm/cm <sup>3</sup> .
	g. wood and plastic.
	h. object's weight and its height.
	i. from chemical to electric.
	j. object's mass and its speed.
	k. from electric to chemical.
	1, cm <sup>2</sup> .

### Question

- Give an example showing each of the following:
- 1. Vertebrate animal.
  - 2. Teethless mammals.
  - 3. Animal makes hibernation.
  - 4. Camouflage in insects.
  - 5. Animal makes aestivation.

B Copy the following table at your answer sheet, then complete it:

T21	Electronic configuration				
Element	K	L	M	N	
23 11Na				***************************************	
<sup>24</sup> <sub>12</sub> Mg	***************************************	31.11.11.11.11.11.11.11	***************************************	*************	

Solve the following problem:

Find the potential energy of an object its mass is 5 kg when found at height 10 m from ground, consider gravity acceleration = 10 m/s<sup>2</sup>.

The figures below represent the electronic configuration of atoms of some elements:

(±8) )	(+12 (±12)	(±17) (±18)
(A) 6	(B) 2 8 2	(C) 2 8 7

Study these figures well, then determine each of the following:

Find	Atom (A)	Atom (B)	Atom (C)
Atomic number of each atom:			***********
Mass number of each atom:			

Cairo Governorate

Al-Waha Language School

Answer the following questions:

Question

- Write the scientific term:
  - 1. Negatively charged particles of negligible mass revolve around the nucleus.
  - 2. Organisms that can't be seen by the naked eye and they spread in air, water and soil.
  - 3. The way by which the heat is transferred through gases and liquids.
  - 4. The behaviour that frogs and toads do in the winter to avoid the low temperature.
  - 5. The ability of some living organisms to be hidden from their enemies.
  - 6. The mass of unit volume of the substance.
  - 7. The gases which their molecules consist of one atom.
  - 8. A group of animals that have one pair of incisors in each jaw.
  - 9. Energy is neither created nor destroyed, but it is converted from one form to another.

كتباب المعاصر

موقع والكروني التعليمي

الصف الأول الاعدادي

4. Scorpion and armadillo are insects.	(	)	
5. The temperature of particles decreases when their movement increases.	(	)	

6. Hot water is lighter than the cold water.

7. Reptiles have an external support.

### Write the symbols of the following elements:

1. Calcium. 2. Aluminium. 3. Nitrogen. 4. Phosphorus. 5. Silver. Hydrogen.

If the density of alcohol is 0.8 gm/cm<sup>3</sup>, find the volume if its mass is 88 gram.

### Question

### Correct the underlined words:

- 1. Oxygen molecule consists of three atoms.
- 2. The molecule of a compound consists of similar atoms.
- 3. Number of protons = Mass number Atomic number.

### Mention the changes of energy in the following:

Examples	Energy used	Energy produced
1. Solar heater:	······································	
2. Photosynthesis:		

### State a difference between each of the following:

- 1. A rabbit and a squirrel.
- 2. Pea plant and wheat plant.
- 3. The camel's pad and the horse's hoof.

### D Write the electronic configuration of the following elements and mention the type of each one (active or inactive):

a. <sup>7</sup>Li

b. 24Mg

c. 39K

b. 20 Ne

### Cairo Governorate

Gaber El-Ansary Language School

### Answer the following questions:

### Question

### Complete the following :

1. Density is the ...... of unit volume of the matter and its unit is .....

2. Hydrogen molecule consists of ...... atoms, while argon molecule consists of ..... atoms.

المعاصر علوم لغات (Notebook) / ١ع/تيرم ١ (م: ١٦)





### Cairo Governorate

East Nasr City Educational Directorate Science Inspection

#### Answer the following questions:

#### Question



### Complete the following statements:

- 1. ..... and ..... belong to teethless mammals.
- 2. The measuring unit of mass is ....., while ..... is the measuring unit of volume.
- 3. ..... and ..... are examples of insectivorous plants.
- 4. Matter consists of small building units called ....., which consist of smaller building units called .....
- 5. Potential energy = ..... × ......

#### B Problem:

When a piece of iron of mass 78 gm is put in a graduated cylinder containing 100 cm<sup>3</sup> of water, the reading of the cylinder becomes 110 cm3. Calculate the density of iron.

### Give an example for each of the following:

- 1. A device changes kinetic energy into electric energy.
- 2. Plants reproduce by spores.

#### Question



### Write the scientific term for each of the following:

- 1. The simplest state of matter which can't be decomposed into a simpler one by chemical methods.
- 2. It is the amount of energy lost or gained by an electron when it transfers from one energy level to another.
- The ability to do work or to make change.
- 4. The temperature at which matter changes from liquid state to gaseous state.
- 5. The ability of some living organisms to simulate the dominant environmental conditions to be hidden from their enemies or even to capture the preys.

### B Compare between each of the following:

- 1. Insects and arachnids. According to the (number of legs)
- 2. Bean plant and maize plant.
- 3. Solid and gas. (Concerning attraction force among molecules)

### Write the electronic configuration of the following elements:

1. 16S

2.7N

3. 20Ca

<b>B</b> Mention the energy	transformations in	the following:
1. Electric bell.	2. Simple cell.	3. Electric heater.
		and the second second

### Cross out the unsuitable word for each in the following:

- Petroleum Wood Cork Iron. Reptiles – Fishes – Birds – Worms.
- 4. Bee Spider Fly Ant. 3. Sodium – Copper – Aluminium – Iron.

## Giza Governorate

Lycée El-Haram Language Schools

#### Answer the following questions:

#### Question

### A Put (✓) or (x) and correct the wrong ones:

- 1. The distance between the molecules in solids is very tiny. 2. The mass number is the amount of energy gained or lost to transfer an electron
- from an energy level to another.
- 3. The chemical symbol of the sodium element is (Sa).
- 4. Kinetic energy is a work done during a motion of an object.
- Heat transfers by convection in liquids only.
- 6. Arachnids have 4 pairs of jointed legs such as a spider.
- The bean plant is an example of dicotyledon plants.

### B What is meant by the following ...?

- 1. The temperature. 2. The mass number.
- 3. Structural adaptation. 4. Heat transfers by radiation.

### Write the symbols of the following elements:

- 1. Sodium. 2. Gold.
  - 3. Iron.

### Question

### Choose the correct answer :

- 1. As an object is launched upwards .....
  - a. its speed decreases. b. its speed increases.
  - c. its kinetic energy increases. d. its potential energy decreases.
- 2. The 3<sup>rd</sup> energy level in the atom contains ...... electrons.
- a. 2 b. 18 c. 8 d. 32
- 3. All the element are active but ..... is not active.
- a. H b. 6C c. 7N d. 18Ar

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى



4 TO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
4. The colour property is a distinguishing factor bet	ween

a. flour and table salt.

- b. iron and gold.
- c. oxygen and carbon dioxide.
- d. no correct answer.
- 5. Particles which are negatively charged and negligible mass are .....
  - a. protons.
- b. neutrons.
- c. electrons.
- d. photons.
- 6. Electric energy is converted into kinetic energy in .....
  - a. electric lamp.
- b. cellular phone.
- c. electric fan.
- d. battery.

- 7. Insects have ..... of jointed legs.
  - a. 3 pairs
- b. 4 pairs
- c. 2 pairs
- d. 44 pairs

### (B) Choose a phrase from column (A), what suits it in column (B):

(A)	(B)	
1. Total number of protons and neutrons is	a. are examples of small terrestrial plants.	
Substances are good electric and heat conductors such as	b. example of animal that undergo aestivation.	
3. Vougheir and adiantum	c. iron and aluminium.	
4. Jerboa is	d. mass number.	

# Compare between solid, liquid and gas regarding to: Attraction forces.

### Question

3

### Complete each of the following:

- 1. Alloy of ..... used in making jewels.
- 2. The density is the ...... of unit volume of a substance, its unit is .....
- The liquid element its molecule composed of one atom is ....., while that composed of two atoms is ......
- 4. The electrons revolve around the nucleus in orbits known as ......
- 5. Electric cables are made up of ..... or .....
- 6. Animals with external support such as ...... and .............
- 7. Paddles of whales and dolphins are for .....

### B Give reasons for :

- 1. The atom is electrically neutral.
- The camel pad ends in a thick flat.
- 3. The inert gases do not react chemically with other element.
- Write the electronic configuration of the following atoms and indicate the number of electron in the outermost level and the number of neutrons.
  - 1. 27A1

2. 35CI

### Question 4

#### Mrite the scientific term:

- Is a group of similar living organisms in shape that can reproduce to give birth of new fertile individuals.
- 2. Is the smallest individual unit of matter which can share in chemical reactions.
- The ability of some living organisms to be hidden from their enemies or to capture the preys in the predatory species.
- 4. Energy stored in an object due to work done on it.
- 5. Molecule is composed of three atoms: 2 hydrogen and 1 oxygen.
- 6. It is the temperature at which a substance changes from a liquid state into geseous state.
- 7. Energy is neither created nor destroyed, but it can be transformed into another form.

#### B Calculated:

- 1. The density of an object if: mass = 500 gm and  $volume = 200 \text{ cm}^3$ .
- A ball was launched upwards at a speed 5 m/s up to height 6 m.
   Calculate the mechanical energy of the ball if its weight is 40 N and has a mass 5 kg.

### The migration is a type of adaptation for the some birds:

- 1. Why some species of birds are adapted to the migration?
- 2. What is the type of this adaptation?

### **Giza Governorate**

Talaee Islamic Language School

#### Answer the following questions:

### Question



### Choose the correct answer :

- 1. ..... is from rodents that undergo aestivation.
  - a. Rat
- b. Squirrle
- c. Jerboa
- d. Desert snail
- 2. The colour property is a distinguishing factor between ......
  - a. table salt and flour.

b. iron and gold.

c. oxygen and nitrogen.

- d. oxygen and carbon dioxide.
- 3. An object potential energy is zero, when the object is at the ......
  - a. maximum height.

- b. Earth's surface.
- c. when mass object increases.
- d. when the object speed increases.
- 4. ..... insect exactly looks like the plant branches.
  - a. Stick
- b. Beetle
- c. Leaf
- d. Locust

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الصف الأول الاعدادي



### B Give reason for the following:

- 1. It is favorable to produce electricity from solar energy than fuel burning.
- 2. Water is not used to extinguish petrol fires.
- 3. The atom is electrically neutral.
- 4. The front limbs in the dolphin are different from the bat's ones although they are structured with similar bones.
- Compare between bean plant and corn plant.

#### Question

### Complete the following statements:

- 1. Equal masses of different substances have different ...... and ...... and
- is the basic unit of classification in living organisms.
- energy is changed into electric energy in the battery.
- take the shape of the container but ...... have definite shape.
- 5. The liquid element which is composed of one atom is ....., while that composed of two atoms is .....
- B Write the electronic configuration for the following elements:

 $\binom{27}{13}$ Al  $- \binom{16}{8}$ O) then calculate the number of neutrons.

What is meant by quantum?

### Question

### Write the scientific term:

- 1. The transfer of heat through solid objects from part to another.
- 2. The work done during motion of the body.
- 3. The spaces found among the molecules of a substance.
- 4. The ability of some living organisms to stimulate the dominant environmental conditions to be hidden from their enemies or even to capture the preys.
- 5. The smallest particle of the matter can exist freely and has the properties of its substances.
- B What is meant by melting point?
- Find the weight of an object of potential energy 88 joules, when found at height 11 metre.

ا العمل خاص بموقع ذاكرولى التعليمي ولا يسمح بتداوله على مواقع أخر الصف الاول الاحدادي صحيحاكيكي كالمعاليمي العالم العالم

### Question

4

- **A** Correct the underlined words:
  - 1. Distance among solids molecules is very large.
  - 2. The substances that can conduct heat and electricity are wood and plastic.
  - 3. The coal is a permanent source of energy.
  - 4. Camphor tree is an example of insectivorous plant.
- B Choose the odd words out then mention the relation between the rest:
  - 1. Mosquito Spider Cockroach Ant.
  - 2. Snake Jellyfish Shark Frog.
  - $3._{6}C _{10}Ne _{9}F _{7}N$
- What is meant by the density of aluminium is 2.7 gm/cm<sup>3</sup>?

### **Giza Governorate**

Pyramids Language School

#### Answer the following questions:

Question



- Write the scientific term :
  - 1. The mass of unit volume of matter.
  - 2. The sum of the protons and neutrons in the nucleus of an atom.
  - 3. The sum of the potential and kinetic energies of the body.
  - 4. Energy is neither created nor destroyed, but it is converted from one form to another.
- B Mention one use for :
  - 1. Copper-gold alloy.

Simple cell.

O Problem:

The mass of an empty beaker = 75 gm where the mass of the beaker filled with liquid = 153 gm while the volume of the liquid =  $100 \text{ cm}^3$ . Find the density of the liquid.

### Question

- **A** Complete the following:
  - 1. The molecule of water consists of two ...... atoms and one ...... atom.
  - 2. From very active metals ...... and .....
  - 3. Kinetic energy =  $\frac{1}{2} \times \dots \times$
  - 4. From the animals that have soft body ...... and ......

المعاصر علوم لغات (Notebook) / ۱ع/ تيرم ۱ (م: ۱۷)







1. Unicellular micro-organisms.

2. Insectivorous plants.

10 Giza Governorate

Science Inspectorate

#### Answer the following questions:

#### Question



- Write the scientific term:
  - 1. Energy stored in the object due to work done on it.
  - 2. It is the temperature at which matter begins to change from solid state to liquid state.
  - 3. The ability of some living organisms to hidden from their enemies.
  - 4. A way of heat transfer through solids.
- **B** Write the symbols of the following elements:
  - 1. Calcium.
- 2. Silver.
- 3. Zinc.
- 4. Potassium.
- What's the density of copper if the mass of a piece of it is 44 gm and it occupies a space of 4 cm<sup>3</sup>.

#### Question



- Give reasons for :
  - 1. The atom is electrically neutral.
- 2. Cooking pots have handles made up of wood.
- 3. Spider is not from insects.
- 4. The bike tire gets hot once you press the brakes.
- Mention the energy transformation in each of the following:
  - 1. Electric heater.

- 2. Simple pendulum.
- Write the electric configuration of the following:
  - 1. 24Mg

2. 40 Ca

3. 16C

### Question



- (a) Calculate the kinetic energy of an object it's mass (12 kg) when it moves at a speed 20 m/s.
- **B** Complete the following:
  - 1. Measuring unit of volume is ...... and that of mass is ......
  - 2. The charge of protons is ....., while that of electrons is .....
  - 3. Weight = ..... × .....
  - 4. ..... is an example for plants that reproduce by spores.
- What happens when ...?
  - 1. Metallic spare parts of cars are not covered with grease.
  - 2. Open a bottle of perfume for a period of time.

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س بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصولة



الصف الأول الاعدادي

Question	2
Gucscion	ALS)

### Write the scientific term:

- 1. A group of living organisms mostly similar to each other in their shape and produce new fertile members.
- Imaginary places in which electrons can move according to their energies.
- 3. The simplest form of matter which can not be decomposed into simpler one.
- 4. It is the main source for the most energy resources on the Earth.
- 5. The pollution produced from the webs of wireless transmitters of cellular phones.
- 6. Plants that can't be distinguished into roots, stems and leaves.

### B Give reasons for each of the following:

- 1. The freezer is found at the top of the fridge.
- 2. The fuel inside the car is similar to the food inside the body of the living organism.
- 3. The atom is electrically neutral.
- When a piece of iron mass 78 gm is put in a graduated cylinder containing 100 cm<sup>3</sup> of water, the water increases up to 110 cm<sup>3</sup>. Calculate the iron density.

Question

- A Put (✓) or (x) in the front of each sentences and correct the wrong ones:
  - 1. The attraction forces among molecules of solids are very weak.
  - 2. Sloth and armadillo are edentates mammals.
  - 3. In solar cells the solar energy is converted into heat energy.
  - 4. Spiders are arthropods that have three pairs of jointed legs.
- Complete the following table by suitable completion:

Device	Type of energy resource
1. Solar heater :	
2. Electric water heater :	***************************************
3. Gas stove :	

- Write down the electric configuration of the following atoms:
  - $1._{16}^{32}$ S

2. 20 N

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى



#### Question

4

A	Chanca	the	correct	answer	31
CA'V	choose	me	correct	answer	

	1 1 00 1		
I Sama alamente which	hac a great difficulty	y to react with ovugen	10
1. Some elements which	mas a great difficulty	V to react with ox vecil	10
A CONTRACTOR CONTRACTOR		,	

- a. potassium.
- b. sodium.
- c. aluminium.
- d. platinum.
- 2. Electric energy is converted into kinetic energy in ......
  - a. electric lamp.
- b. cellular phone.
- c. electric fan.
- d. electric bell.
- 3. In doubling the height of an object from the ground, its ......
  - a. kinetic energy is increased to its double value.
  - b. potential energy is increased to 3 times.
  - c. mechanical energy is increased 4 times.
  - potential energy is increased to its double value.
- 4. The scorpion belongs to .....
  - a. arachnids.
- b. myriapods.
- c. mammals.
- d. insects.

- 5. In the filament of electric lamp the .....
  - a. light energy is converted into mechanical energy.
  - b. chemical energy is converted into light energy.
  - c. electric energy is converted into heat energy.
  - electric energy is converted into mechanical energy.
- 6. Heating coils are made up of ...... alloy.
  - a. iron-copper
- b. nickel-iron
- c. nickel-chrome
- d. chrome-copper
- An object of 20 newton weight and it is placed at a height of 5 m, so its potential energy is ......joules.
  - a. 50
- b. 150
- c. 100
- d. 200
- 8. All of the following elements are inactive elements except .....
  - a. <sub>2</sub>He
- b. 15P
- c. 18Ar
- d. 10Ne

### B Give example showing each of the following:

- 1. An animal with a soft body.
- 2. A monocotyledon plant.

A myriapod animal.

### What is the mathematical relationship that binds between each of the following:

- 1. Weight of an object and its mass.
- 2. Mechanical energy of an object and its potential energy.
- 3. Potential energy, weight and height.

12 Alexandria Governorate

Middle Educational Zone

#### **Answer the following questions:**

#### Question

1

### **(A)** Complete the following statements:

- 1. The mass of the atom is concentrated in the .....
- 2. The protons have ..... charges.
- 3. Heat transfers from the Sun to the Earth by .....
- 4. From the examples of huge trees is .....
- 5. The gymnosperms plants as pine produces seeds inside .....
- 6. Arachnids have ..... pairs of jointed legs.

### **B** Mention one example for:

- 1. A permanent source of energy.
- 2. An amphibian undergoes hibernation.

3. Lagomorphs.

4. Camouflage in insects.

### Compare between the following:

- 1. Mercury and bromine concerning the molecule structure.
- 2. The car engine and the car cassette concerning the energy produced.

### Question

### 2

### O Correct the underlined words:

- 1. Liquids have a fixed shape.
- 2. The relation (2n2) is not applied to energy level higher than 5th level.
- 3. In solar cell the solar energy is changed into magnetic one.
- 4. In simple cell the positive pole is a rode of zinc.
- 5. Secreting poison in snakes is considered as a behavioural adaptation.
- 6. Insectivorous plants catch and pounce insects to get starch.

### B Cross out the odd word, then mention the common property between the rest:

1. Butter - Ice - Iron - Wax.

2. Armadillo – Lion – Tiger – Wolf.

### Give reasons for the following:

- 1. Electrician use a screwdriver made up of steel iron with woody handle.
- 2. Heater is placed on the ground, while the air conditioner is put at high position in the room.
- 3. The shallow water birds have long and thin beaks.

- A form of energy transfers from higher temperature to lower temperature.
- Plants can't be distinguished into roots, stems and leaves.
- The basic classification unit for living organisms.

- B What happens in the following cases and why ...?
  - 1. If water is used to put out the petrol fires.
  - 2. If you put a drop of potassium permanganate in a jar containing water.
  - 3. Rubbing your hands together.
- C A racing bike moves with a speed of 20 m/s. Calculate its kinetic energy knowing that the mass of the bike is 8 kg.

### Alexandria Governorate

El-Agamy Educational Zone

#### Answer the following questions:

#### Question



- Choose the correct answer :
  - 1. The amount of energy gained or lost by the electron is called ......
    - a. joule.
- b. quantum.
- c. neutron.
- d. proton.

- reproduces by spores.
  - a. Vougheir
- b. Pine
- c. Bean
- d. Wheat
- 3. The fourth energy level is saturated by ..... electrons.
  - a. 32
- b. 18
- c. 8

d. 2

- 4. When air heats up its density ..... a. still constant.
- b. increases.
- c. decreases.
- d. (b) and (c).

- B Write the electronic configuration for :
  - 1. 24Mg
- 3. 40 Ar

### Question

- A Put (√) or (x) in the following statements:
  - 1. The positive pole in a simple cell is lead.

2. Heat transferred through solids by conduction.

Jewels are made up of copper-gold alloy.

4. All inert gases are monoatomic.

- B What happens when ...?
  - 1. Coil the wire of a simple cell around a compass.

5. Mass number is the sum of protons and electrons numbers.

Putting of a drop of ink in water.

المعاصر علوم لغات (Notebook) / ۱ع/تيرم ۱ (م: ۱۸)

خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى



4. Metallic bridges are	painted from time to t	ime to protect them from
5. When an electron tra	ansfers from an energy	level near the nucleus to a higher one, it
a quantum	of energy and the ator	m becomes atom.
6. The molecule of hyd	lrogen chloride consist	ts of one atom of, and one atom
of		
On determining iron d	ensity using a piece o	of iron of mass 78 gm, the piece is immersed
in 100 cm <sup>3</sup> of water, the	hen water rises up to	110 cm <sup>3</sup> Calculate the density of iron.
Question 2		
Write the scientific te	rm:	
1. Plants that can't be o	distinguished into root	s, stems and leaves.
2. Energy neither be cr	eated nor destroyed.	
3. The type of adaptation	on when birds migrate	from one place to another.
4. The sum of the num	bers of protons and ne	utrons inside the nucleus of the atom.
What are the differen	ces between ?	
1. Hydrogen and helius	m.	
2. Bat and whale (Acco	ording to the adaptatio	n of the front limbs).
Write down the electr	onic configuration an	d the type of the following elements :
1. <sup>7</sup> Li	2. <sup>20</sup> Ne	d the type of the following elements.
	2. 10110	
Question 3		
Choose the correct an	swer:	
1. In car engine the che	emical energy is chang	ged into energy.
a. magnetic	b. electric	c. mechanical
2. The electron is	charged particle.	
a. positively	b. negatively	c. neutrally
3. The number of pairs		**********
a. 4	b. 3	c. 44
4. An object of weight 6		eight 5 m, its potential energy is joules.
a. 30	b. 75	c. 11
Give reasons for:		
1. Some birds have lon	g thin beaks and long	thin legs.
2. Wood floats on the s	surface of water.	
3. Cooking pots are ma	ade of aluminium, whi	le their handles are made of wood.

- 35/1 Then calculate the atomic number – the mass number – the number of protons – the number of neutrons – the number of electrons – the number of energy levels having electrons – the number of electrons in the outermost energy level. Determine if the atom is active or inactive and mention the reason.

Choose	the	correct	answer:
CHOOSE	tile	correct	answei .

- 1. An object potential energy is zero when the object ......
  - c. mass increases. a. is at the maximum height. b. is at the Earth's surface.
- 2. Heat transfers by convection occurs through ......
  - a. liquids only. b. gases only. c. liquids and gases.
- 3. ..... is an example for micro-organisms.
  - b. Sloth a. Amoeba c. Snail
- 4. Spider has ..... pairs of jointed legs.
- b. three c. four a. two

#### Question



#### Write the scientific term for the following:

- 1. The smallest part of matter that can exist freely having the properties of matter.
- 2. The transfer of heat from hot object to another without any need for a material medium through which heat transfers.
- 3. The ability of some living organisms to simulate the dominant environmental conditions to be hidden from their enemies.
- 4. The sum of potential and kinetic energies.
- 5. A group of similar living organisms in shape that can reproduce to give birth of new fertile individuals.
- Energy is neither created nor destroyed but it can be transformed into another form.

### Write the symbols for the following elements:

- - 1. Aluminium. 2. Bromine. 4. Flourine. 3. Calcium. 5. Oxygen.
- Calculate the density of a piece of copper, if you know that its mass equals 60 gm, and its volume equals 10 cm<sup>3</sup>

### Question

- What happens when ...?
  - 1. Leaving a piece of iron exposed to moist air for a period of time. And why?
  - Dipping a copper rod and a zinc rod connected by a wire in diluted sulphuric acid.
  - 3. Increasing the speed of a moving object to double. And why?

### **B** Complete the following sentences:

- 1. If the height of an object increases to double, its potential energy increases to ......
- 2. Jerboa undergoes ...... to overcome the ...... in temperature.
- 3. In the car dynamo ...... energy is changed into ..... energy.



- 4. Pollution produced from the web of cellular phone.
- A modification in behaviour, structure of function of a living organism to become more adapted with environment.

B What is meant by ?			
1. The kinetic energy of an object = 20 joules.	2. Camouflage.		
3. Melting point of ice = 0°C	4. Density of metal = $7.8 \text{ gm/cm}^3$ .		
Write the electronic configuration of :			
1. 16O	2. <sup>23</sup> Na		
Then find:	Family & Control of the Control of t		
a. Number of neutrons.	b. number of energy levels.		
Question 2			
O Complete the following:			
<ol> <li>The liquid element whose molecule composed element which its molecule composed of two a</li> </ol>		qui	d
<ol><li>An alloy of is used in making jewe heating coils.</li></ol>	ls, but alloy is used in makir	ıg	
3. In the simple cell, energy changes i	nto energy.		
4. The number of jerboa's upper jaw incisors ed rabbit's upper jaw incisors equals	uals and the number of the		
5. The symbol of potassium atom is,	while the symbol of silver atom is		
6 is from very active metals but	is from inactive metals.		
B Give reasons for :			
1. Freezer is found at the top of the fridge.			
2. Some plants pounce insects.			
3. The electrons are distributed to fill the (K) le	vel before filling the (L) level.		
4. Frog hibernates in winter.			
Find the potential energy of an object, whose reference from the ground. (acceleration of gravity = 10)		10	m
Question 3			
Put (     ✓) or (     x) and correct the wrong ones:			
1. Electron transfers from (N) energy level to (I	() by gaining quantum.	(	)
2. Euglena from multicellular living organisms.		(	)
3. The transfer of heat through copper is by con	duction.	(	)
<ol> <li>Angiosperms are called flowering plants.</li> </ol>		(	)
<ol><li>When the ball of pendulum goes away from increases.</li></ol>	ts original position, its kinetic energy	(	)
6. At mid height divide (K.E.) over (P.E.) of ob	ject = 1	(	)
			1

### B What will happen if ...?

- 1. The legs of camel do not end with thick flat pads.
- 2. The mass number equals the atomic number in the nucleus of an atom of an element.
- 3. You add 100 cm<sup>3</sup> of ethyl alcohol to 400 cm<sup>3</sup> of water.
- 4. Overuse of chemical pesticides.

### Mention the formula by which you can:

- 1. Calculate the number of electrons that saturates each energy level from one to four.
- 2. Show relation between mechanical energy, kinetic energy and potential energy.

#### Question

4

#### Choose the correct answer:

- 1. Nucleus of atom is ..... charged.
  - a. positively
- b. negatively
- c. neutrally
- d. all are right
- 2. ..... belongs to animals that have no body support.
  - a. Mussel
- b. Hedgehog
- c. Octopus
- d. Snake
- 3. In the solar cell, the solar energy is directly converted into ..... energy.
  - a. kinetic
- b. light
- c. electric
- d. heat
- 4. Distance among molecules are very small in .....
  - a. water.
- b. copper.
- c, hydrogen.
- d. oil.

- 5. Birds migration represents ..... adaptation.
  - a. anatomical
- b. functional
- c. structural
- d. behavioural
- 6. By increasing the height to double and decreasing the mass of an object to half the potential energy will ......
  - a. increase to double. b. decrease to half.
- c. not change.
- d. increase four times.

### B Choose the odd word out, then write the scientific term for the other words:

- 1. Iron Copper Aluminium Wood.
- 2. Dieonea Drosera Amoeba Halophila.
- 3. Whale Bat Dolphin Sea lion.
- 4. Spiders Locusts Flies Cockroaches.

### Give the difference between:

- 1. Solid material and gaseous material
  - (Concerning: intermolecular space, intermolecular force).
- 2. Electric heater and solar heater
- (Concerning: effect on the environment and kind of energy resource).

## 17

### El-Dakahlia Governorate

Educational Directorate
Science Inspectorate

#### Answer the following questions:

#### Question



#### **A** Choose the correct answer:

1 The	measuring	unit of	density	is	
1. 1110	measuring	unit or	uchishty	10	************

a. m/s.

b. gm/cm<sup>3</sup>

c. kg/s.

2. ..... is from the compound molecules.

a. Cl<sub>2</sub>

b. HO

c. Fe

3. .... is from the inert gases.

a. He

b. Al

c. Cl

4. The number of electrons that saturates the level (K) is ......

a. 8

b. 2

c. 32

5. Resource of permanent energy is ......

a. petrol.

b. the Sun.

c. coal.

6. Dynamo converts mechanical energy into ...... energy.

a. electric

b. nuclear

c. solar

7. ..... haven't a body support.

a. Snails

b. Dogs

c. Jellyfishes

### B Fill in the following table after coping it in your answer sheet:

By knowing that (Mass number = Number of protons + Number of neutrons).

	Atomic number	Mass number	Number of protons	Number of neutrons
Hydrogen	1	1		
Calcium	20	4700-00-00-00-1-00-0		20
Carbon	***************************************	12	January 1111	6
Chlorine	***************************************	35	17	

### Mention the formula (law) by which you can determine :.

- 1. The number of electrons in each energy level.
- 2. The work done.
- 3. The weight of an object.

المعاصر علوم لغات (Notebook) / ۱ع/تيرم ١ (م: ١٩)

PART

### Question

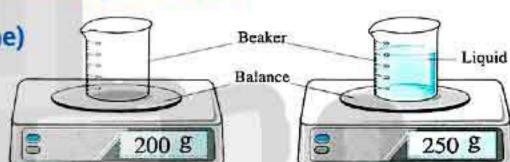
2

- Put (
   ✓) or (
   x) with correcting the false ones:
  - 1. Water is used to put out petrol fires. (
  - 2. Mass number is the number of neutrons in the nucleus. ( )
  - 3. Wood and copper are bad conductors of electricity. ( )
  - 4. Chemical energy can be stored in stretched spring. (
  - 5. Fuel in a car as food for a man. (
  - 6. The measuring unit of potential energy is the joule.
  - 7. The hydrogen molecule consists of two hydrogen atoms. (
- (B) The diagram shows an experiment to find the density of a liquid

By using the formula (Density = Mass/Volume)

Calculate the density of the liquid

Calculate the density of the liquid.



- Give reasons for :
  - 1. The atom is electrically neutral.
  - 2. The mass of the atom is concentrated in its nucleus.
  - 3. Freezer is found at the top of the fridge.
  - 4. Cooking pots are made up of aluminium.

Question 3

- Write the scientific term:
  - 1. The number of positive protons in the nucleus.
  - 2. The ability to do work, or to make a change.
  - 3. The simplest pure form of matter which can't be analyzed simpler.
  - 4. The matter which doesn't take the shape of the container.
  - Amount of energy which an electron loses or gains to transfer from an energy level into another one.
  - 6. Temperature at which solid state begins to change into liquid one.
  - 7. A modification in behaviour, structure or biological function of living organisms to become more adapted with the environmental conditions.
- B Write the electronic configuration of the following atoms :  $^{39}_{19}K$   $^{7}_{3}Li$   $^{19}_{9}F$   $^{40}_{18}Ar$

Fill in the following table after copying it in your answer sheet:

(Heat energy - Wind - Food - Sound energy- Electric energy - The Sun).

Energy forms	Energy resources	
***************************************		

#### Question

4

A Problem:

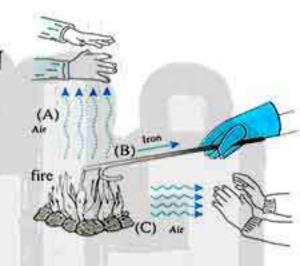
A ball was launched upwards and vertically at a speed 3 m/s up to a height 4m. Calculate the mechanical energy of the ball if its weight is 5 newtons and has a mass 0.5 kg.

- B Write the name of each chemical symbol of the following:
  - 1. P
- 2. Ne
- 3. Si

4. N

© Study the figure, then mention:

Heat transfers through different media by: (conduction, convection and radiation). Mention the method of transferring heat in each area (A, B, and C).



- D State one difference between:
  - 1. Potassium and gold. (Concerning chemical activity)
  - 2. Insects and arachnids. (According to the number of legs)
  - 3. Solid and gas. (Concerning the intermolecular spaces)
  - 4. Hydrogen and Helium. (According to the number of atoms in its molecule)

# 18 Ismailia Governorate

Science Inspectorate

Answer the following questions:

#### Question



- **A** Complete the following statements:
  - 1. The liquid element which consists of one atom is called .....
  - 2. An example for a very active metal is .....
  - 3. Friction turns kinetic energy into ..... energy.

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والتعليمية

الصف الأول الاعدادي

ع(المعاليمي

كتاب المعاصر

10. The transfer of h	eat with no need for	a medium is called	*********
a. convection.	b. radiation.	c. conduction.	d. no correct answer
How can the follow			an no correct answer
How can the follow 1. Stick insect to hid		neir environment :	
2. Quail bird to over		tamparatura	
		The contract of the contract o	
Calculate the weigh of 11 m.	t of a body whose p	otential energy is 88 jou	lles and it is at a height
Question 3			
Write the scientific	term :		
<ol> <li>Energy is neither of</li> </ol>	reated nor destroyed	, but it can be changed i	from one form to another
	e living organisms to ies or capture insects		environmental condition
3. The amount of end level to another.	ergy lost or gained w	hen an electron transfers	s from one energy
4. The result of comb weight ratios.	oination between two	or more different eleme	ents with constant
5. The temperature at liquid state.	which a substance s	starts to change from the	solid state to the
6. The smallest part of	of matter which can e	exist alone and keep proj	perties.
Give one example fo	or each of the follow	ving :	
l. Aestivation in anin			
2. A solid substance v	which is soft at room	temperature.	
3. Plants that can't be	distinguished into r	oots, stems and leaves.	
A bird whose beak	is wide indented in t	the two sides.	
Put ( / ) in front of r	ight statement and	(x) in front of wrong o	ne :
l. Heat is transferred			(
2. The intermolecular	- S		Č
3. In the car dynamo	, electric energy is cl	hanged into kinetic energ	gy. (
4. Bean plant is a dice	otyledon plant.		C

الصف الأول الأعدادي مركع الكرائي التعاسر

- **©** Give reasons for the following:
  - 1. The atom is electrically neutral.
  - Camel limbs end in a thick flat pad.
  - 3. Heater is put at the bottom of the room.

Question	2
----------	---

- Write the scientific term for each of the following statements:
  - 1. The basic classification unit for living organisms.
  - The amount of energy that gained or lost by the electron to transfer from an energy level to another.
  - 3. The temperature at which a solid substance starts to change into liquid.
  - 4. Energy is neither created nor destroyed, but it is converted from one form to another.
- When a piece of copper of mass 156 gm is put in a graduated cylinder containing 100 cm<sup>3</sup> of water, the reading of cylinder becomes 120 cm<sup>3</sup> Calculate the density of copper.
- O Compare between:
  - 1. Solids and liquids. (According to attraction force)
  - 2. Bean and pine plants. (According to seeds)
  - 3. Heat energy and temperature. (Concerning: definition)

# Question

- Write down the electronic configuration of the following elements:
  - 1. 11Na
- 2. 17Cl
- 3. 10Ne

- B What happens when ...?
  - 1. Using water in putting out petrol fires.
  - 2. Camel exchanges its pad with a horse's hoof.
  - 3. Friction between a tire of a bicycle and a rough surface.
  - 4. An electron gains a quantum of energy.
- Put (√) in front of the correct statement and (x) in front the incorrect one, then correct the wrong ones:
  - Aestivation is the behaviour that some animals do by hiding in burrows to avoid low temperature in winter.
  - The mass number is the number of protons and electrons.
  - 3. Potential energy of an object decreases by increasing its height.
  - The motion of gases is completely free.

# Question 4

- **A** Choose the correct answer:
  - 1. The following animals have no body support except .....
    - a. worms.
- b. octopus.
- c. jellyfish.
- d. fish.

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هذا العمل خاص بموقع ذاكرولى التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلود

بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواق

Question	2

-		0.5		
(A) CI	100se	the	correct	answer

1. An object of 20 N weight is placed at 5 m height, it has potential energy .....

a. 50 J.

b. 100 J.

c. 150 J.

2. From animals with internal support:.....

a. octopus.

b. snails.

c. fish.

3. Positive charged particles in the nucleus of atom are .....

a. neutrons.

b. protons.

c. electrons.

4. Potassium is symbolized by .....

a.P

b. K

c. B

5. From gymnosperms plants: .....

a. wheat.

b. pine plant.

c. maize.

6. Density measuring unit .....

a. cm<sup>3</sup>

b. gm.

c. gm/cm<sup>3</sup>.

7. In the solar batteries the solar energy is directly converted into ...... energy.

a. light

b. sound

c. electric

8. Heat is transferred by radiation through .....

a. liquids only.

b. gases only.

c. material media and non-material ones.

# (1) Write the electronic configuration of:

23<sub>11</sub>Na

27 13Al

· Then determine each of the following:

- 1. Atomic number.
- 2. Mass number.
- 3. Number of neutrons.

## (2) What is meant by the following ... ?

Mechanical energy of an object is 100 joule.

### **Question**

3

# M Give reasons for :

- 1. Water is not used in extinguishing petrol fires.
- 2. Camel limbs ends in a flat thick pad.
- 3. It is difficult to bend iron rod.
- 4. Inert gases cannot share in chemical reaction in ordinary conditions.
- 5. The heater is placed on the ground.

المعاصر علوم لغات (Notebook) / ۱ع/تيرم ۱ (م: ۲۰)



- B Give one different between each of the following:
  - 2. Insects and arachnids. 1. Bean plant and maize plant.
- (a) Identify:
  - 3. Adaptation. 2. Quantum. 1. Energy.
  - (b) Mention one example for:
    - 1. A good conductor matter for heat and electricity.
    - Plants that reproduce by spores.

# Question

### Write the scientific term:

- Energy is neither created nor destroyed, but it can be transformed into another form.
- 2. Mass measuring unit.
- Temperature at which liquid state changes into gaseous one.
- 4. It is the smallest part in matter that can exist freely, having the properties of a substance.
- An alloy which is used in making heating coils.
- 6. The simplest pure form of matter and cannot be analyzed into simpler form.
- B Rewrite the following sentences after correcting the underlined words:
  - 1. Carbon is symbolized by Ca.
  - 2. Animals with external support are such as reptiles.
  - Friction turns potential energy into heat energy.
  - 4. From substances that float on the surface of water is copper.
  - Resource of permanent energy is nuclear energy.
  - 6. Aluminium is from liquid elements.
- Cross out the unsuitable word from each of the groups below:
  - 1. Locust Mosquito Spider Cockroach Flies.
  - 2. Lion Tiger Dog Wolf Armadillo.

# El-Behira Governorate

Ismail Elhabrouk Formal Language School

## Answer the following questions:

Question

# Choose the correct answer:

1. The monoatomic liquid is .....

a. Hg

b. Ag

c. Mg

d. Br

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخ

الصف الأول الأعدادي صح الكوال الأعدادي الم

2. The heat of the S	un is transferred to	us by	
a. convection.		b. radiation.	
c. conduction.		d. conduction and	d radiation.
3. The rule which is levels is		lectronic configuration fo	r the first four energy
$a. 2^2 n$	b. 2n <sup>2</sup>	c. 2n	$d. n^2$
4. From gymnosper	rms plants is	*****	
a. wheat.	b. pine.	c. maize.	d. pea.
5. An object of mas	s 1 kg moves at spe	ed 4 m/s., so it has a kinet	ic energy = ····· joule.
a. 16	b. 8	c. 64	d. 4
	mber of an element stom of this elemen	1774	this means that there aren't
a. electrons	b. protons	c. neutrons	d. photons
B Give reasons for ea	ach of the followin	ng:	
1. When a zebra ma	ates a donkey, they	can't produce fertile indi	viduals.
<ol><li>The volume of a before mixing.</li></ol>	mixture of water a	nd alcohol is less than the	sum of their volumes
3. There are front to	eth extending outv	vard in hedgehog.	
4. Balloons which f	illed with helium g	as rise up in air.	
Question 2			
Write the scientific	term for each of	the following :	
1. It is the atom wh	ich gains a quantun	n of energy.	
2. The basic classif	ication unit for livir	ng organisms.	
3. The simplest pur	e form of matter wh	hich can't be analyzed ch	emically into simpler form.
10-2 H	dition which detern contact with anoth	nines whether heat transfe er.	ers from or to an object
B Mention one use o	r importance for e	ach of the following:	
1. Nickel-chrome a	lloy.	2. Solar cell.	
3. Palm legs in ducl	cs.	4. Stainless steel	alloy.
Find the number of	neutrons, number	r of electrons and its che	emical activity for each

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of the following atoms:

2. 20 Ne

1. 27 Al



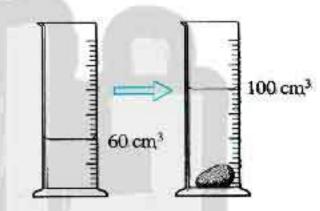
## Question

- Complete the following statemetns:
  - 1. ..... solution is a good conductor of electricity, but ..... solution is a bad conductor of electricity.
  - 2. Simple cell converts ..... energy into ..... energy.
  - 3. Spiders are classified from ...... but ..... is classified from myriapods.
  - 4. Potassium 19K has ...... electron/s in the outermost energy level, but 18Ar has ..... electron/s in the outermost energy level.
- B What do you expect in each of the following cases ...?
  - 1. Predatory plants can't capture insects.
  - 2. Increasing mass of an object. (Concerning its density)
  - 3. Friction between bicycle wheels and a rough surface.
- Study the opposite figure which represents:

The volume of water before and after put a stone on it.

Find the density of this stone if its mass = 80 gm?

Question



- Correct the underlined words in the following statements:
  - 1. The atom mass is concentrated inside the electrons.
  - 2. Measuring unit of weight is joule.
  - 3. In rodents the incisors number in the lower jaw is three pairs
  - 4. Gold is from very active metals.
- Compare between:
  - 1. Ammonia gas and hydrogen chloride. (in terms of : no. of elements no. of atoms)
  - 2. Hibernation and aestivation. (in terms of : definition example)
- Two players play volley ball, If the mass of the ball is 1.5 kg and gravity is 10 m/s2, Find:
  - 1. Potential energy at position (1) that represents the maximum height, if the net at height = 2m.
  - 2. Mechanical energy at position (2) that represents the ground.



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هذا العمل خاص بموقع ذاكرولى التعليمي ولا يسمح بتداوله على مواقع أخرى

El-Minia Governorate

Minia Directorate Kafr El-Mansoura Language School

#### Answer the following questions:

# Question

A	Complete	the	following	sentences :
	Complete	LIIC	Tollowillig	semences .

- 1, ..... and ..... are teethless mammals.
- 2. Light posts in streets are painted from time to time to protect them from ......
- 3. An object of 20 N weight is placed at a height of 5 m, has potential energy equals ......
- 4. An alloy of ...... is used in making jewels, while an alloy of ...... is used in making heating coils.

# Write the chemical symbols of:

- 1. Sliver.
- 2. Calcium.
- 3. Aluminium.
- 4. Helium.

#### State one difference between:

1. A rabbit and a squirrel.

2. An element and a compound.

# Question

# Choose the correct answer:

- 1. The property of electric conduction is distinguishing factor between .....
  - a. iron and copper.
    - b. wood and plastic. c. iron and wood.
- d. plastic and glass.

- 2. The scorpion belongs to .....
  - a. insect.
- b. myriapods.
- c. arachnids.
- d. mammals.

- 3. Heat transfers from heater by ......
  - a. conduction and radiation.
- b. radiation and convection.
- c. conduction and convection.
- d. radiation only.

# B Give reasons for :

- 1. When adding an amount of water to alcohol the volume of mixture is less than the sum of their volumes before being mixed.
- 2. The equation (2n<sup>2</sup>) is not applied on levels higher than 4<sup>th</sup> level.
- 3. Wood floats on water surface, while a piece of iron sinks.
- 4. The freezer is found at the top of the fridge.

# Write the scientific configuration for:

1. 24Mg

2. 16O

بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أ.

- 1. Number of the positive protons in nucleus of the atom.
- 2. Energy stored in the object due to the work done on the object.
- Energy gained or lost to transfer an electron from an energy level to another.
- The basic unit of classification in living organisms.
- Imaginary places in which electrons can move according to their energies.
- 6. It is the mass of unit volume of the substance.

# B Mention one example of each of the following:

- 1. Very active element.
- 2. Device converts electric energy into light energy and heat energy.
- 3. Liquid element its molecule consists of one atom.
- 4. Permanent source of energy.
- 5. Species of birds adapted by bird migration.
- 6. Mammals have paddles for swimming.

# Compare between each of the following:

Rodents and lagomorphs. (According to number of teeth in the upper jaw - example).

#### Question

2

#### M Give reasons for :

- 1. It is very hard to fragmentize a piece of iron with your fingers.
- 2. The atom is electrically neutral.
- 3. Hedgehog has front teeth extending outwards.
- 4. Neon atom (10Ne) does not enter a chemical reaction through the ordinary conditions.

#### B Choose the correct answer:

- 1. The property of electric conduction is a distinguishing factor between:
  - a, iron and copper.

b. wood and plastic.

c. iron and wood.

- d. copper and aluminium.
- 2. As doubling height to which an object is raised from ground, so the ......
  - a. kinetic energy is increased to its double value.
  - b. potential energy is increased to 3 times.
  - c. potential energy is increased to its double value.
  - d. mechanical energy is increased to 4 times.
- Energy is neither created nor destroyed, but it can be transformed into another form of energy, this law is known as law of......
  - a. conservation of energy.

b. conservation of matter.

c. kinetic energy.

- d. Earth's gravity.
- 4. The scorpion belongs to .....
  - a. insects.
- b. myriapods.
- c. arachnids.
- d. mammals.
- 5. Mechanical energy is converted into heat energy by means of ......
  - a. electric generator.

- b. electric heater.
- c. friction among moving particles with each other.
- d. electric motor.

- O A stone of 3 kg mass falls from 6 m height, what is its potential energy? And what is its kinetic energy? In each of the following:
  - 1. At the start of falling.
  - 2. At height 2 m.
  - 3. On reaching ground. (considering gravity acceleration = 10 m/sec<sup>2</sup>.)
- Study the following atoms, then answer:

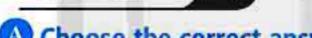
Points of comparison	35 17Cl	<sup>4</sup> <sub>2</sub> He
1. Number of electrons in outermost energy level of each atom.		
2. Number of neutrons inside nucleus of each atom.		
3. Number of energy levels which have electrons of each atom.		

# **Luxor Governorate**

Science Inspectorate

#### Answer the following questions:

#### Question



- A Choose the correct answer:
  - 1. ..... is the monoatomic liquid molecule.
    - a. Bromine

- b. Mercury
- c. Iodine
- 2. ..... is an example of plants that reproduce by seeds.
  - a. Adiantum
- b. Vougheir
- c. Bean
- 3. By increasing the kinetic energy of particles, their ..... increases.
  - a. weight

- b. temperature
- c. volume
- 4. The electric energy is converted into kinetic energy in .....
  - a. electric lamp.
- b. electric fan.
- c. electric heater.

- 5. ..... bird migrates in winter.
- a. Quail

b. Duck

c. Sparrow

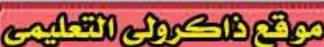
- What is meant by ...?
  - 1. Micro-organisms.
  - 2. Conservation law of energy.
- Write the symbol of each one of the following elements:
  - 1. Gold .....
- 2. Sodium .....
- 3. Oxygen .....

- 4. Carbon .....
- 5. Phosphorus .....

المعاصر علوم لغات (Notebook) / ١١ / تيرم ١ (م: ٢١)







## O Problems:

- 1. The density of alcohol is 0.8 gm/cm<sup>3</sup>. Find the volume of 80 gram of it.
- 2. Find the potential energy of an object, whose mass is 6000 gram when it is found at a height of 10 m from the ground. (gravity acceleration = 10 m/s<sup>2</sup>).

# 25

### **Aswan Governorate**

M.M. Yaakoub Formal Language School

#### Answer the following questions:

#### Question

1

# **O** Complete the following sentences:

- 1. The hydrogen molecule consists of ......, while the helium molecule consists of ......
- 2. Friction turns ......energy into ...... energy.
- 3. Heat transfers by convection in ...... and ......
- 4. ..... and ......are from plants that reproduce by spores.
- 5. The frog is an example for ....., while jerboa is an example for .....

### B Calculate:

The kinetic energy of an object its mass is 2 kg and moving at a speed of 5 m/s.

#### Question

2

## A Choose the correct answer:

- 1. Silver is symbolized by .....
  - a. Hg
- b. Au
- c. Ag

d. Cu

- 2. Attraction force between solid molecules is ......
  - a. large.
- b. small.
- c. very small.
- d. not found.
- 3. The number of energy levels in the heaviest atom is ......
  - a. 7

b. 8

- c. 18
- d. 32

- 4. Resource of permanent energy is ......
  - a. The Sun.
- b. Coal.
- c. Petrol.
- d. Nuclear reactions.

- 5. The cockroach belongs to .....
  - a. insects.
- b. myriapods.
- c. arachnids.
- d. mammals.

## B Give reasons for:

- 1. Atom is electrically neutral.
- 2. Some plants pounce insects.

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلقة







### Question

3

- Write the scientific term for each of the following:
  - 1. The temperature at which a matter changes from a liquid state into gaseous one.
  - 2. The smallest individual unit of matter which can share in a chemical reaction.
  - 3. Energy is neither created nor destroyed, but it is transformed into another form.
  - 4. A modification in behaviour, structure, biological function of a living organism's organs to be more adjustable with the environmental conditions where it lives.
  - 5. The ability of some living organisms to be hidden from their enemies or preys.
- B Mention the formula by which you can calculate:
  - 1. The density.

2. The number of electrons in each energy level.

### Question



(A) Choose from (B) what suits it from (A):

(A)	(B)	
1. Julius	a. Insect	
2. Scorpion	b. Rodent	
3. Sloth	c. Myriapod	
4. Rat	d. Lagomorph	
5. Rabbit	e. Arachnid	
RANIC	f. A teethless mammal	

- B Write the electronic configuration of the following atoms :
  - 1. 27Al

2. 40Ar

# **76** South Sinai Governorate

Tur Sinai Directorate

## Answer the following questions:

Question



- **M** Complete:

  - 2. Potential energy = ..... × .....

164

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلود

- 3. An alloy of ...... is used in making jewels, while an alloy of ..... is used in making cooking pots.
- 4. Hawks have ..... beaks, while ducks have ..... beaks.
- 5. Heat transfers through solids by ....., while through non-material media by .....

## D Compare between:

- 1. Element and compound (According to definition only).
- 2. Insects and arachnids (According to number of legs- examples).

# C Study the opposite figure then:

- 1. Mention the name of the opposite device.
- 2, Label the figure.
- 3. Write the change of energy in this device.

# Write one importance of:

1. The front teeth in hedgehog.

2. Helium gas.

#### Question

## Choose the correct answer:

- 1. The number of atoms is equal to the number of elements in ...... molecule.
  - a. water

- b. hydrogen chloride
- c. oxygen
- 2. Among elements which has a great difficulty to react with oxygen of air is .....
  - a. potassium.
- b. sodium.

- c. gold.
- 3. The activity of birds during the daylight and bats during night is considered as an example of ..... adaptation.
  - a. functional
- b. anatomical
- c. behavioural
- 4. When an object is thrown upwards its .....
  - a. potential decreases,
- b. speed decreases.
- c. mechanical energy decreases.
- 5. In car dynamo the energy changes from .....
  - a. heat to mechanical.
- b. electric to heat.
- c. mechanical to electric.

# B Study the opposite figure which represents the nucleus of an element, then find:

- 1. The mass number.
- 2. The number of energy levels having electrons.
- 3. This element active or inactive? Give reason for your chosen.

# Write an example of:

- 1. Liquid element composed of two atoms.
- 2. An insectivorous plant.

165

هذا العمل خاص بموقع ذاكرولى التعليمي ولا يسمح بتداوله على مواقع أخرى الصف الاول الاحدادي مصطح الكري العمد الدي المحمد المعالي المحمد المعالي المحمد المعالي المحمد المعالي المحمد المعالي المحمد المح



Final Examinations of some Governorates.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلقة

# Cairo Governorate

Nozha Language Schools

Question (1)		
Complete the following	g statemonts :	
1 and	are considered as forms o	f energy.
	consists of two at	oms, while the ammonia molecule n atoms.
8. Limbs are modified in dolphins for	2 (30)	, while into paddles in whales and
★. The attraction force a molecules of water.	mong the molecules of copp	per is than that between
3. Scorpion has	pairs of legs, while ants ha	ave pairs of legs.
6. The heat transfers by	convection through	and materials.
B Cross the odd word ou	t:	
1. Aluminium Sulphur	/ Copper / Iron.	
2. Jellyfish Armadillo	/ Earthworm Octupus	
3. Helium Oxygen N	eon Argon.	
Question 2		
Choose the correct ans	wer:	
1. The atom is electrica	lly	
a. positive.	b. neutral.	c. negative.
2 are from an	imals that have an external	support.
a. Mammals	b. Snails	c. Birds
3. The produced energy	by burning the fuel is	energy.
a, potential	b. nuclear	c. heat
♣ The volume of a mix  500 cm <sup>3</sup> .	ture of 300 cm <sup>3</sup> of water and	i 200 cm <sup>3</sup> of ethyl alcohol is
a. less than	b, more than	c. equals
3. Secretion of poison i	n the snakes is a ac	daptation.
a. structural	b. functional	c. behavioral



هذا العمل حصرى على موقع ذاكرولى التعليمي ويسمح بمشاركته فقط ولا يسمح بتداوله على أي مواقع أخرى للمزيد من أعمالنا الحصرية تفضل بزيارة موقعنا الالكتروني من هنا https://www.zakrooly.com

	www.zakrooly.com	Science	والمجسل الكوال المحلاسي الكوال	
0	6. The number of electrons	that saturates an energy level (1	n) = ······	
	a. n <sup>2</sup>	b. 2n	c. 2n <sup>2</sup>	
O <sub>k</sub>	7. The electric cell is compo	osed of solution with	two different metals dipped in.	
50	a. a salt	b. an alkali	c. an acid	
<b>(</b>	<b>B</b> Put (✓) or (🗴) :			
10	1. As we go further from th	e nucleus, the energy of the ene	ergy level decreases. ( )	
2 9	2. The heat transfers from th	e lower temperature object to the	e higher temperature object. ( )	
A =	3. Mercury is a liquid eleme	ent that its molecule composed	of one atom. ( )	
IN	4. Chemical pesticides and	car exhaust are from the harms	of technology applications. ( )	
U	<ol><li>Scolopendra and euglena</li></ol>	are from myriapods.	( )	
	Write the importance of e	ach of the following :		
is)	1. Gold-copper alloy	2. Car dynar	no.	
12	Question 3		** **	
	Correct the underlined wo	ords:		
	1. The symbol of copper is	Ca while F is the symbol of ph	osphorous.	
90	2. Frogs undergo aestivatio	in winter to overcome the de	creasing of temperature.	
	3. Boiling point is the temp	erature at which matter change	s from solid into liquid state.	
V.	4. Friction changes the poten	ential energy into electric energ	gy.	
111	5. Wood is a good conductor of heat and electricity.			
1	6. The mechanical energy is the sum of heat energy and light energy.			
V	7. The density equals mass	divided <u>area</u> .		
	<b>B</b> Give reasons for :			
<b>, (</b> )	1. Camel's legs end in a bro	oad pad and thick skin.		
0/	2. Argon atom (18Ar) doesn	't enter a chemical reaction thro	ough the ordinary conditions.	
7	Calculate the potential en	ergy of an object of weight 50	newtons that placed at	
	height 5 metres.		1.65	
	Ovestion 4			
0	Write the scientific term :		S#11	
7	Section in the second of the s	unit of matter which can share i	n chemical reaction.	
D	ه على أي مواقع أخرى مواقع أخرى مواقع أخرى https://www.za	مى ويسمح بمشاركته فقط ولا يسمح بتداوا موقعنا الالكتروني من هنا krooly.com	هذا العمل حصري على موقع ذاكرولي التعليد للمزيد من أعمالنا الحصرية تفضل بزيارة ه	

موقع والكوران التعليمي

كتاب المعاصر

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الصف الاول الاعدادي

### www.zakrooly.com Science المجسل المصواحي الكولي

- It is a modification in the living organism body structure, function or behavior to be adapted with its environmental conditions.
- 8. It is a permanent resource of energy.
- 4. An amount of energy that gained or lost to transfer an electron from one energy level to another.
- The way of transferring the heat through solids.
- The figure represents the electronic configuration of the atom of an elements Determine:
  - The atomic number.
  - . The mass number.
  - 3. The number of energy levels.
  - 4. The number of electron in the last energy level.
- Match from column (B) what is suitable for column (A):

** (A)	, <b>(B)</b>	
1. Chameleon	a. reproduce by formation of spores.	
2. Voughair	b. colours itself with the dominant colours of	
3. The jerboa	surrounding environment to capture the prey.	
4. Drosera	c. from the insectivorous plants.	
5. Rat	d. undergoes aestivation in summer to escape from high temperature.	
√ .	e. is an example of rodents.	

# Cairo Governorate

Lycee Bab El Louk

# Answer the following questions:

# Juestion

- Complete the following statements:
  - 1. The matter in ...... state has a definite shape and definite volume.
  - 2. Technology has negative effects like ......
  - 3. An alloy of ........... is used in making jewels.
  - . In the simple electric cell, ..... energy is converted into ..... energy.



هذا العمل حصري على موقع ذاكرولي التعليمي ويسمح بمشاركته فقط ولا يسمح بتداوله على أي مواقع أخرى للمزيد من أعمالنا الحصرية تفضل بزيارة موقعنا الألكتروني من هنا https://www.zakrooly.com

	www.zakrooly.com	Science	التحصل الكولاسي الكول				
0	The pendulum can conve	rt potential energy into	energy.				
	Activity of bats during night is considered adaptation.						
<b>W</b>	(B) Identify:						
50	1. Species. 2. Melting point.						
0	Question 72						
LP	AND THE PROPERTY OF THE PROPER						
200	Correct the underlined words:  1. If the density of a matter is 2 g/cm <sup>3</sup> and its volume is 50 cm <sup>3</sup> , the mass equals: 25 g.						
<u> </u>							
h	3. Water molecule is consisted of one oxygen atom and two nitrogen atoms.						
NIII	4 Molecules of liquid element consisted of one atom is the bromine						
	s. Intercellular spaces among molecules of solid state are medium.						
P	6. From plants reproduce by formation of spores palms plant.						
+2	B Give reasons for :						
	1. Piece of iron sinks in water.						
	Camel's legs has flat pad.						
9,	Question						
1	Choose the correct answer to complete the following statements :						
C.	Rat has						
ILI	wa. two pairs of incisors in	each jaw. b. one	e pair of incisors in each jaw.				
1	three pairs of incisors		correct answer.				
D	2. The Sun is						
	a. resource of permanent energy.  b. resource of non-permanent energy						
<u>.</u> 💡	e. not an energy resource. d. (a) and (c).						
0/	. In the radio cassette inside the car the						
X	ar electric energy is converted into mechanical energy.						
50	b. light energy is converted into heat energy.						
	c. electric energy is converted into kinetic energy.						
76	d. electric energy is converted into sound energy.  4. Atom symbol of potassium element is						
11	10 Sept. 120 Sep	b. Cu c. P	d. K				
<b>A</b> =		Control of the state of the sta					
D	له على أي مواقع أخرى فلاكورولي	سي ويسمح بمشاركته فقط ولا يسمح بتداو توزير الكذاب من المناركية المحمد المحمد	هذا العمل حصري على موقع ذاكرولي التعليه				
1111			للمزيد من أعمالنا الحصرية تفضل بزيارة م				

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	www.zakrooly.com	Scie	nce	S)	المحسول المتحاصي التكاو	10 N	
9	5. Some substances need l	neat to get soften s	uch as				
	a. coal.	b. iron.	c. sulphu	ır.	d. rubber.		
Oy.	Secreting sweat by skin	is considered	adaptation	ra.			
50	a. structural	b. functional	c. behavi	ioral	d. no correct answe	er	
0	Write the electronic conf	iguration of the fo	llowing atoms :	:			
LP	1. <sub>11</sub> Na	2. <sub>10</sub> Ne					
26	Question -						
<b>6</b>	Calculate the potential e	nergy of an object	its mass is 4 kg	j. is pla	ced at 5 m. height		
	(consider $g = 10 \text{ m/s}^2$ ).						
mu	(I) Mention only one difference between						
166	1. Element and compound	. 2. House fly	and seomion.	3_E	lectron and proton.		
12	What happens in each of the following cases ?						
12	When the energy of the electron is more than the energy level in which the electron						
	rotates.						
×	The freezer is found at the lower part of the fridge.						
9	Friction between the frames of bicycle's wheel with the brake.						
	Caire Covers			e"		1	
×	Cairo Govern	Mota	e Dame Des A	Apotres	School Shoubra		
₩	Answer the following question	ons:		λY			
	Question (						
ν,	Complete the following s	antancae :					
	1. The hydrogen molecule		while the arg	on mol	ecule consists		
<b>3</b> 🖁	of	CO1151515 CT	, while the arg	,011 11101	ccurc consists		
0/	2. The density is the	of unit volume	of substance an	id its me	easuring unit		
-0	is						
	3 and						
	4. When the speed of the pendulum is maximum the energy is maximum and						
0	5. Simple electric cell changes energy into energy.						
# S							
						1114	
D	هذا العمل حصرى على موقع ذاكرولى التعليمي ويسمح بمشاركته فقط ولا يسمح بتداوله على أي مواقع أخرى والمنطقة المنطقة المنط					للمزد	
161	كتاب المعامب	Talle hand	COPORTION OF	(63).	صف الاول الاعد	20	

# B Calculate:

- 1. The potential energy of an object whose mass is 10 kg, and placed at 5 m, height from the ground (Considering gravity acceleration 10 m/s<sup>2</sup>).
- 2. Kinetic energy of an object whose mass is 1 kg. and moving at speed of 5 m/s.
- 3. The mass of piece of sulphur whose volume is 10 cm<sup>3</sup> and its density is 2.1 gm/cm<sup>3</sup>.

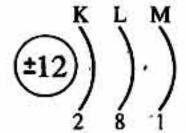
# Delication Look at the opposite figure, then answer:

1. Find number of protons.

2. Find the mass number.

3. Find the atomic number.

4. Find this element activity.



# Question

# Give reasons for each of the following :

- 1. Wood piece floats on water surface, while a piece of lead sinks in it.
- 2. Equal volumes of different substances have different masses.
- 3. Camel's legs end with broad pad.
- 4. Some plants catch and feed on insects.
- 5. The freezer is found at the top of fridge.
- 6. The volume of a mixture of water with alcohol is less than sum of their volumes before being mixed together.

# Mention one example for :

- 1. Solid substance has low melting point.
- 2. Insectivorous plants.
- Unicellular organism.
- 4. Alloy used in making heating coils.

# Write the symbols of the following element:

- Mercury.
- 2. Sodium.
- 3. Lead.
- 4. Zinc.

# Write electronic configuration for:

1. <sub>19</sub>K

2. <sub>o</sub>F

- 3. <sub>13</sub>Al
- 4. 10Ne

# Question

# Write the scientific term for:

- 1. The sum of potential and kinetic energies of a body.
- 2. The temperature at which matter begins to change from solid to liquid.



هذا العمل حصرى على موقع ذاكرولي التعليمي ويسمح بمشاركته فقط ولا يسمح بتداوله على أي مواقع أخرى للمزيد من أعمالنا الحصرية تفضل بزيارة موقعنا الألكتروني من هنا https://www.zakrooly.com

الصف الأول الأعدادي مركم الكراج الكراجي

# Question

- Write the scientific term:
  - 1. The basic classification unit for living organisms.
  - The simplest pure form of a matter that can't be analyzed into simpler form.



هذا العمل حصرى على موقع ذاكرولي التعليمي ويسمح بمشاركته فقط ولا يسمح بتداوله على أي مواقع أخرى https://www.zakrooly.com للمزيد من أعمالنا الحصرية تفضل بزيارة موقعنا الالكتروني من هنا

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	3. The ability to do work or to make a change.					
	4. Energy is neither created nor destroyed, but it is converted from one form to another.					
	5. The ability of some living organisms to be hidden from their enemies.					
(	Compare between :		2.2			
	1. Arachnids and insects	. (acc	cording to the nun	nber of legs)		58.1
	2. Solids - Liquids and gases. (according to intermolecular space and intermolecular force).					nd intermolecular force).
(	Calculate the density of iron cube its mass 78 gm. If that piece was immersed in 100 cm <sup>3</sup> of water the level of water rises to 110 cm <sup>3</sup> .					was immersed in
<b>通知</b>	Question 3		18	Se.		
(	Choose the correct ans	wer:				
	1. Mammal animal that	has o	ne pair of incisors	in each jaw		••••
	a. squirrel.	b. r	abbit.	c. lion.		d. no correct answer.
	2. The nucleus of	at	tom doesn't contain	in neutrons.		
	a. neon	b. h	ydrogen	c. oxygen		d. no correct answer
	3. The atomic number of an atom of an element, its (M) energy level contains 2 electrons					el contains 2 electrons
	18	h 1		c. 12		d. 14
	a. 8 4. Heat transfers by	b. 1				u. 14
	a. conduction		onvection	c. radiation	n	d. no correct answer
	5. The density of 12 gm					
	a. more than			c. less than		
4	B Write the electronic co	nfiau	ration for the fol	lowing :		
•	1. 39 <sub>K</sub>	2. 35		3. 40 Ar		4. <sup>7</sup> Li
A force of 20 newton acts on a body to move it a distance 1.5 m. in the same direction of force. Calculate the work done.						
ないので	Question 4					
	Give an example for:		©			
	1. An inert gas.	2	. Insectivorous pl	ant.	3. N	Monocotyledon plant.
Mention the name of the device which used to change:						
	1. Chemical energy to electric energy.					
	2. Electric energy to kinetic energy.					
	هذا العمل حصرى على موقع ذاكرولي التعليمي ويسمح بمشاركته فقط ولا يسمح بتداوله على أي مواقع أخرى التعليمي ويسمح بمشاركته فقط ولا يسمح بتداوله على أي مواقع أخرى التعليمي التعليمي المريد من أعمالنا الحصرية تفضل بزيارة موقعنا الالكتروني من هنا https://www.zakrooly.com					

	www.zakrooly.com	Science	والكويما التحميل التحويل				
9	If you have two elements ( ${}^{14}_{7}$ N - ${}^{24}_{12}$ Mg) answer the following :						
	1. Write the name of each one.						
<b>W</b>	2. The atomic number of each one.						
50,							
0	Cairo Governorate  Degla Valley Language School						
6	Answer the following questions :						
2 6	Ouestion 67						
<b>6</b> =							
h	Complete the following sentences:						
	1. The electron has charge, while the proton has charge.						
W	2. Heat transfers through solids by, while heat transfers through liquids						
12+	by						
+	4. From the examples of dicotyledon plants are and						
	5. The front limbs of whales and dolphins are modified into, while the front						
	limbs of bats are modifie	ed into					
9 ,	B What is meant by ?						
1	1. The melting point.  2. The law of conservation of energy.						
To *	Question 2						
111	Choose the correct answer						
1	1 is from the ani	mals that make hibernation in	winter.				
D	a. Desert snail	b. Jerboa	c. Frog				
	2 is a permanent	resource of energy.	•				
4 💡	a. Sun	b. Coal	c. Natural gas				
0	S	long to arachnids except					
<b>X</b>	a. locust.	b. scorpion.	c. spider.				
50,		es the energy into lig b. electric	c. mechanical				
0	a. sound  5. The smell property is a continuous section of the smell property section	distinguishing factor between .					
LP	a. iron and gold.	b. wood and plastic.	c. perfume and vinegar.				
3 6		turated by electrons.					
A =	a. 8	b. 18	c. 32				
N	وله على أي مواقع أخرى المناها المامية	مي ويسمح بمشاركته فقط ولا يسمح بتدا	هذا العمل حِصري على موقع ذاكرولي التعلي				
Ų	https://www.zak	موقعنا الالكتروني من هنا rooly.com	للمزيد من أعمالنا الحصرية تفضل بزيارة				
1	كتاب المعاصد	وم الم الم الم الم الم الم الم الم الم ال	الصف الأول الأعدادي				

N 3

#### www.zakrooly.com Science والمجسل المتحلك الكول

- B Give reasons for :
  - 1. A piece of wood floats on the water surface, while an iron nail sinks in water.
  - 2. Some plants as drosera and dieonea pounce insects.
  - The atom is electrically neutral.
- Calculate the potential energy of an object its mass is 2 kg. at a height 3 m. knowing that the gravity acceleration is 10 m/s<sup>2</sup>.

# Quesition

- Write the scientific term:
  - 1. The work done during the motion of the objects.
  - 2. The insect which looks like the branches of the plant.
  - 3. The smallest part of matter that can exist freely having the properties of matter.
  - 4. The basic classification unit for living organisms.
- **B** Mention the use of :
  - The copper-gold alloy.
  - 2. The sharp and crooked beaks in hawks.
  - 3. The simple electric cell.
- Draw the electronic configuration of the following atoms:
  - 1. 35Cl

2. 27Ne

- Correct the underlined words:
  - 1. The molecules of inert gases consist of two atoms.
  - Friction turns the mechanical energy into magnetic energy.
  - Iron and copper are bad conductors of heat.
  - 4. The rat belongs to the lagomorphs.
  - The kinetic energy decreases by increasing the mass and speed of objects.
  - 6. The chemical symbol of silver is Si.
- Mention an example for :
  - 1. A plant reproduces by formation of spores.
  - The liquid element consists of two atoms.
  - A teethless mammal.
  - A solution that is good conductor of electricity.



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- Compare between:
  - 1. Insects and arachnids (according to the number of legs).
  - Solids and gases (according to the intermolecular spaces).

# Cairo Governorate

Dr. Ahmed Zewail Distinguished Language School

Answer the following questions:

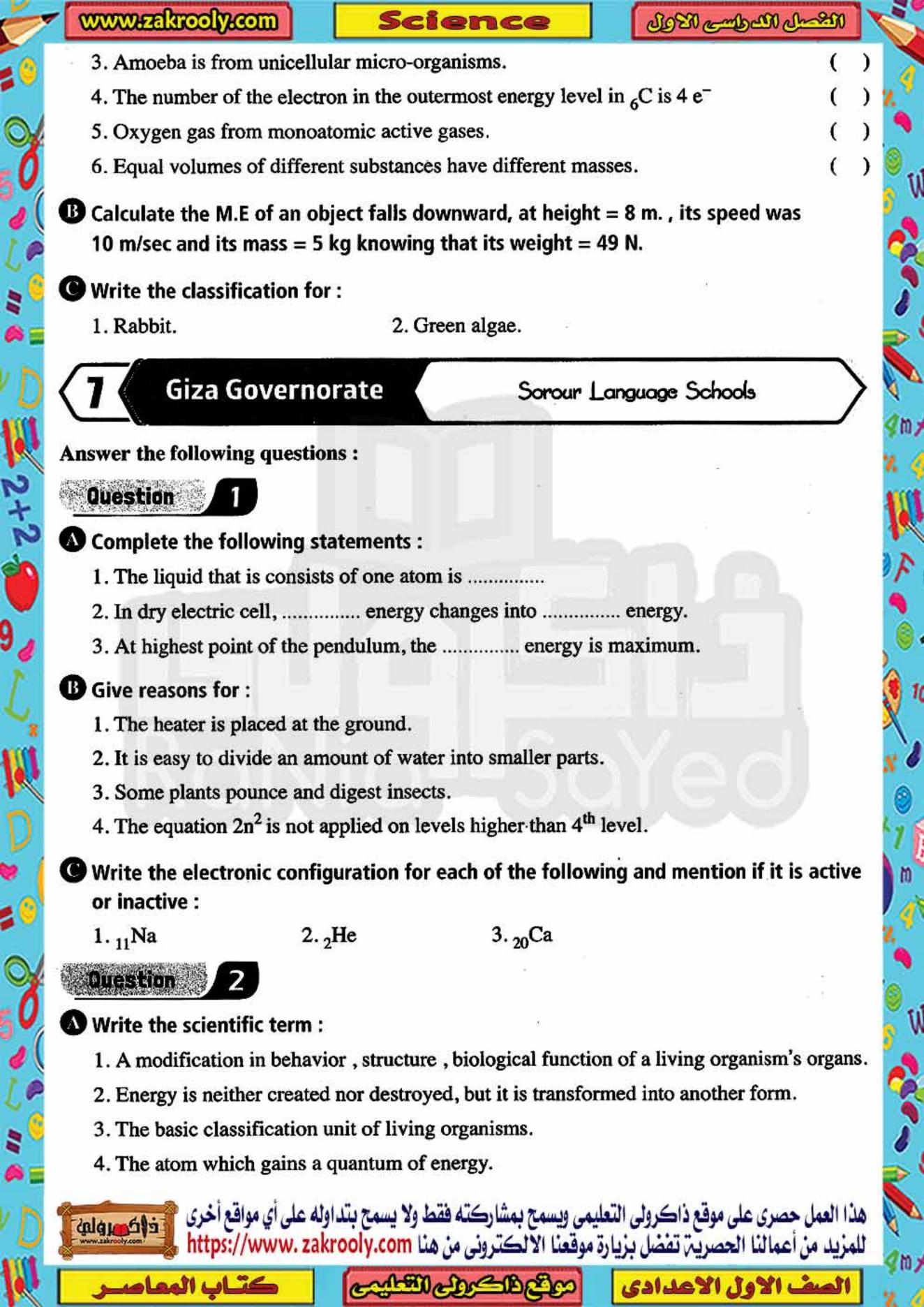
# Question

- Complete the following statements:
  - 1. ..... is the positive charges that exists in the nucleus.
  - 2. The intermolecular spaces between iron molecules are .....
  - 3. ..... is the way of transferring heat through space.
  - 4. ..... is an animal from edentates.
  - 5. ..... is the sum of protons and neutrons.
  - 6. ..... is the sum of potential and kinetic energy.
- Calculate the mass of piece of sulpher, its volume 5 cm<sup>3</sup>, knowing that the density of sulpher 2.1 gm/cm<sup>3</sup>.
- Write the symbol of:
  - 1. Sodium.
- 2. Calcium.
- 3. Iron.
- 4. Fluorine.

- Write the scientific term:
  - 1. The temperature at which the substance begin to change from solid to liquid.
  - 2. The monoatomic liquid.
  - 3. The atom that gains a quantum of energy.
  - 4. A device changes solar energy to electric energy.
  - The basic classification unit of living organisms.
  - 6. The plants which devour insects to get protein.
- B Give reasons for :
  - 1. The atom is electrically neutral.
  - 2. Neon is an inert gas.



الصف الاول الاعدادي



كتباب المعاصير

الصف الأول الأعدادي مركم الكالكرال الكالم

#### Giza Governorate

Abou Elnomrous Directorate

Answer the following questions:

#### Question

- Complete the following statements:
  - 1. In solar cell, ..... energy changes into ..... energy.
  - 2. The monoatomic liquid is ....., while ..... is diatomic liquid.
  - 3. Heat transfers through solids by ....., while through liquids by .....
  - 4. The front limbs of whale are modified into ...... to helps it to ......
- B Give an example for :
  - 1. Very active metal.
  - Dicotyledon plant.
  - 3. A device changes electric energy to heat energy.
  - 4. A solid substance which is soft at room temperature.
- O An object whose mass is 2 kg. moving at a speed 5 m/sec. Calculate its kinetic energy.

#### Question

- Write the scientific term:
  - 1. The basic classification unit of the living organisms.
  - 2. The sum of potential energy and kinetic energy.
  - 3. The spaces between molecules.
  - 4. The smallest building unit of matter which can exist freely.
  - 5. Energy is neither created nor destroyed but it is converted from one from to another.
  - 6. The ability of some living organisms to hide from their enemies.
- Write the electronic configuration and calculate the number of neutrons of:
  - 1. 35Cl

- 2. 20Ne
- 3. <sup>16</sup>O
- Mention one difference between:
  - The electron and the proton.
  - Insects and arachnids.





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- 1. From animals with internal support .....
- a. octopus.
  - b. fish.

- c. snail.
- d. jellyfish.

- 2. Silver is symbolized by .....
  - a. Hg

b. S

c. Si

d. Ag

- 3. Chemical energy can stored in .....
  - a. car battery.

b. stretched spring.

c. raising a load upwards.

- d. car lamps.
- 4. ..... is an example for plants that reproduce by spores.
  - a. Pine
- b. Bean

- c. Vougheir
- d. Wheat

- 5. ..... is a permanent source of energy.
  - a. Petrol
- b. The Sun
- c. Coal
- d. Battery
- 6. The third energy level is saturated by ..... electrons.
  - a. 2

b. 10

- c. 18
- d. 8

#### B Give reasons for :

- 1. The freezer is found at the top of the fridge.
- 2. The shallow water birds have long and thin beaks.
- 3. It is easy to divide an amount of water to smaller parts.
- What is meant by ...?
  - 1. Mass number.

2. Hibernation.

#### Correct the underlined words:

- 1. The molecule of a compound consist of similar atoms.
- 2. Insectivorous plants absorb nitrogen to form fats.
- 3. Frication produces light energy.
- 4. Kinetic energy stored in the object due to work done on it.
- In the simple electric cell the positive pole is made of zinc.
- 6. Liquids have a fixed shape.

#### Mention one use or function for the following:

- Nickel-chrome alloy.
- Simple electric cell.



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~	www.zakrooly.com	Scie	ence		التحصل الكولسي الكول	V			
	3. Heat transfers by	through ma	terial media and	l non-	-material media.				
1	4. In photosynthesis proce	ess, en	ergy is changed	into	energy.	v			
Į.	5. Electrons revolve around the in orbits known as								
	<b>®</b> What happens when ?	i L							
(	1. A compass is put near t	o a wire of simp	ole electric cell.						
	<ol><li>Increasing the speed of</li></ol>	moving object	to double and w	hy?					
8	Question 2								
	Write the scientific term for each of the following sentences :								
	1. The sum of potential ar	nd kinetic energi	ies.			•			
	2. The number of positive	protons in the r	nucleus.						
1	3. Temperature at which s	1,700		- 5		4			
	4. The simplest pure form	of matter which	h can't be analya	zed to	o simpler.				
	f B What is meant by each	. ?	-			4			
)	1. Hibernation.		2. Law of o	conse	rvation of energy.				
1	Compare between each of the following:								
	1. Ammonia gas and hydrogen chloride (according to: number of elements and number of atoms).								
	2. Solid and gas (according to intermolecular spaces and forces).								
	Question 3					3			
	Give reasons for each of	the following:				3			
ı	1. The atom is electrically neutral.								
	2. The shallow water birds have long and thin beaks.								
	3. Wood floats on water surface, while a piece of iron sinks in it.  4. Some plants are insectivorous plants								
1	Some plants are insectivorous plants.     Electric wires are made up of copper.								
ı	If the work done to move a box a distance of 5 metres equal 20 joules. Calculate the force.								
1	Write the chemical symb 1. Iron.	2. Gold.	3. Coppe	er.	4. Zinc.	4			
	Allers and the Control of the Annie of the Control	z. cola.	э. сорр.						
	Ouestion 49		. 24 . 4						
	Write the mathematical		at binds betwee	en ea	ch of the following :	*			
9	<ol> <li>The weight of an object</li> <li>The number of electron</li> </ol>		certain energy le	evel.					
	3. Density, mass and volu								
	ه على أي مواقع أخرى الشروي المواقع	. فقط ولا يسمح بتداول	مي ويسمح بمشاركته	التعلي	ذا العمل حِصري على موقع ذاكرولو	4			
	https://www.za	ان هنا krooly.com	موقعنا الألكتروني	بزيارة	مزيد من أعمالنا الحصرية تفضل م	Ų			

كتباب المعاصر

-	www.zakrooly.com		Sc	ience	والتجسيل التحاطيسي الجراث			
•	Write the electronic co number of protons and	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		[				
	1. 40/Ca	2.	<sup>20</sup> Ne	3. 35Cl	4. 4He			
(	Give one example for :				2°			
	1. Liquid diatomic elem	ent.		2. Soft bo	dy organism.			
<	11 Alexandria Go	vern	orate	Al-Safwa	a Integrated School			
A	Answer the following que	stion	s:					
8	Question 61		*					
(	Complete the following	g sta	tements :					
	F6			vels, while	. alloy is used in making			
	2. The monoatomic liqu	id is		, while the diatomic	liquid is			
)	3. The electric lamp changes energy into energy.							
	4. From teethless mammals are and							
	5. Heat is transferred in	solic	ls by	, while in liquid	s by			
(	B Give one example :							
	1. A very active metal.			2. Noble gas				
	3. Animal with soft bod	y.		4. Arachnida	<b>3.</b>			
Tables.	Question 2							
	Write the scientific term	m:						
	1. The temperature at w		_					
	2. The simplest pure form of matter which can't be analyzed.							
	3. The ability to do work or make a change.							
	4. The basic classification		7					
1	5. The ability of some living organisms to be hidden from enemies.							
1		atea 1	or destroy	ed but it is converte	ed from one form to another.			
`	B Give reasons for :			*				
	1. Atom is electrically n			2. Heater	is placed on the ground.			
1	Correct the underlined	wor	ds:					
	1. Measuring unit of en	ergy	is <u>newton</u> .	7.00				
	2. In solar heater, the so	lar e	nergy is co	nverted into kinetic	energy.			
ď,	أي مداقع أخرى	le dia	. هلا يسمح يتد	م وسمح بمشاركته فقط	بذا العمل حصري على موقع ذاك ولي التعلي			

موقع الكورني التعليبي

للمزيد من أعمالنا الحصرية تفضل بزيارة موقعنا الالكتروني من هنا https://www.zakrooly.com

الصف الاول الاعدادي

كتاب المعاصر

الصف الأول الأعدادي وكالكورال التعليم

## www.zakrooly.com

#### Science

التحسل الكولسي الكولل

- 2. The simple electric cell consists of a sugary solutions dipped in it two different metals.
- 3. Vougheir is the fern plant that reproduces by formation of seeds.
- 4. Heat is transferred from the Sun to the Earth by convection.
- 5. Banana tree carries small-sized leaves.

#### B Cross out the unsuitable word:

- Locust Mosquito Cockroach Spider.
- 2. Beans Pea Pine Corn.
- Petroleum wood Cork Iron.

# لا تئس الاشئراك في قنــوات نـَاكــرولي على نطييق الثليجرام

#### Give reasons for :

- 1. The intercourse (mate) between dog and cat impossible.
- 2. The motion of the children's swing is like that of the pendulum.
- 3. The atom is electrically neutral.

#### Question

#### Choose the correct answer:

- 1. An object of mass 2 kg. is moving at a speed of 4 m/s. has a kinetic energy ...... joules.
  - a. 16

b. 64

- c. 32
- 2. In solar heater, solar energy is converted into ..... energy.
  - a. light

- b. electric
- c. heat
- is from the rodents that undergo aestivation.
  - a. Rat

- b. Jerboa
- c. Desert snail
- 4. The colour property is a distinguishing factor between .....
  - a. Flour-sugar.
- b. silver-gold.
- c. oxygen-helium.
- 5. The third energy level is saturated by ...... electrons.
  - a. 2

b. 18

- c. 8
- 6. A substance is solid and can't be soften by heating .....
  - a. copper.
- b. sulphur.
- c. aluminum.

#### Write the electronic configuration :

1. 23Na

2. 20 Ne

#### Then determine each of the following:

1. Atomic number.

Mass number.

Number of electrons.

4. Number of Neutrons.

Number of energy levels.

Chemical activity.



كتباب المعامب

الصف الأول الأعدادي ووكواكرال التعليم

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The networks of wireless transmitters of cellular phones cause ........... pollution but car exhaust causes ....... pollution.



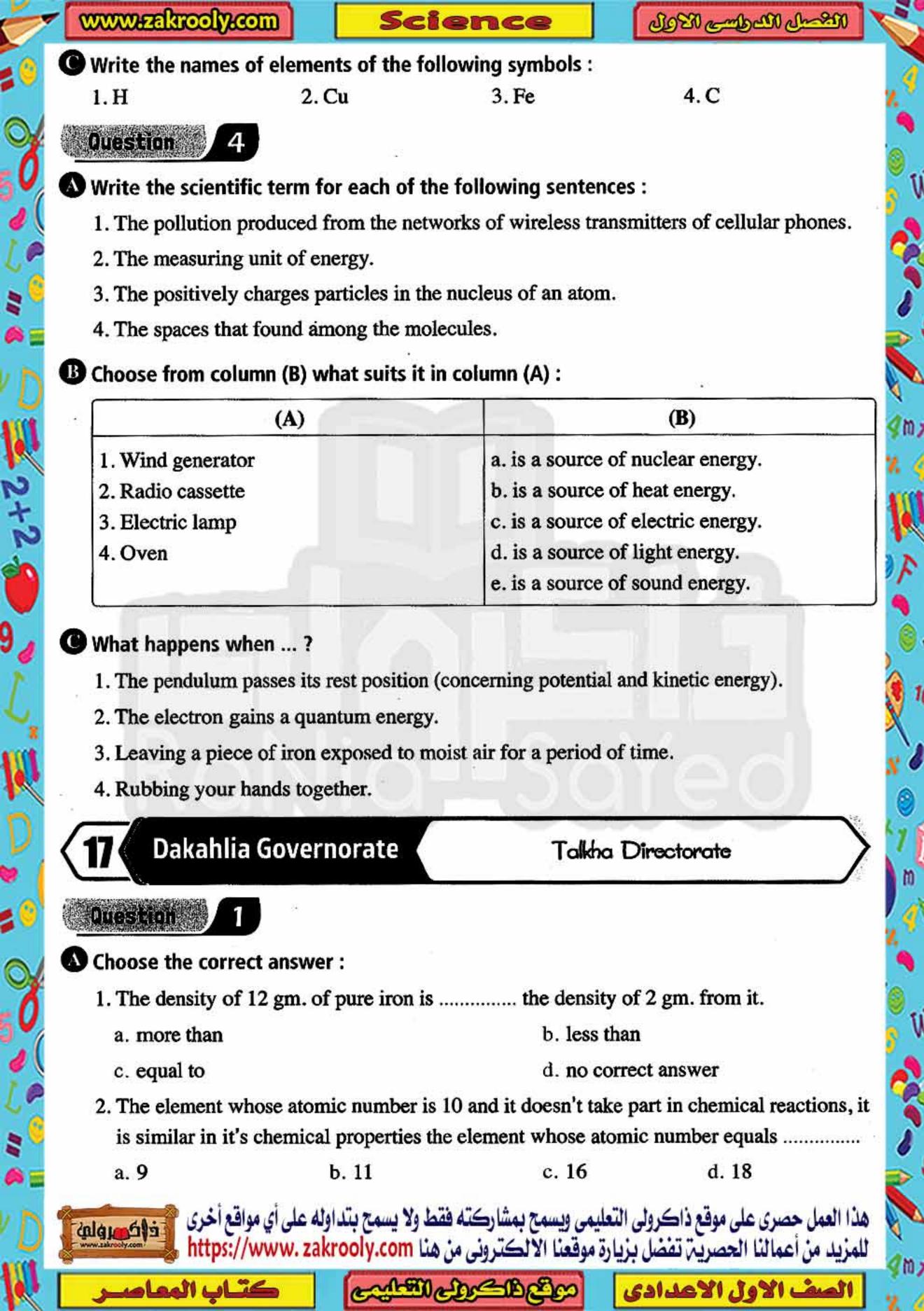
الصف الأول الأعدادي

كتباب المعاص

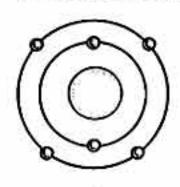


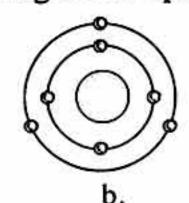


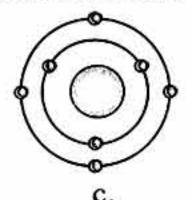
	www.zakrooly.com	Science	والمجسل المتحالي المتحالي	ľ
9	(B) Mention the difference between	ween each of the following :		
	1. Insects and arachnids.	2. Act	ive metals and inactive metals.	í
W.	<b>G</b> Give reasons for :			
50	1. Car engine is important to	the car. 2. The	e heater is placed on the ground	l.
	Question 2			
6	Put (✓) or (寒) and correct to	the wrong ones :		
7 S	1. Argon atom (40 Ar) has for		(	)
	2. The melting point of wax i	is equal to the melting point o	f table salt. (	)
U	3. The kinetic energy of a sta	tic object equals zero.	(	)
	4. In the electric cell, the elec	ctric energy is converted into	chemical energy. (	)
2+	5. Insectivorous plants can't a	absorb the nitrogenous substa	6 <u>2</u> 15	<b>.</b>
+2	needed to make fat.	ha highast angray		)
	6. The energy level "K" has t			,
	Write the electronic configu		ns :	
9	1. <sup>16</sup> <sub>8</sub> O 2. <sup>3</sup> <sub>1</sub>	7 <sup>C1</sup>		
	What is meant by ?			
V <sub>x</sub>		Adaptation. 3. Transfe	er of heat by radiation.	
111	Ouestion 3			
	Complete the following state	tements :		
Ψ,	1. The density is the	of unit volume of a substance	ce and its measuring unit	
	is			
	2. An alloy of is use making coils.	ed in making jeweis, while an	alloy of is used in	
Oy	3. The smallest part of the ele	ement that can take part in a c	hemical reaction is known	
50	as			
0	4. The symbol of sodium ator	m is, while that of s	ulphur atom is	
LP	5 is the basic unit of	of classification in living orga	nisms.	
1 6	A ball was lunched upwards	and vertically at a speed 3 m	/s. up to a height 4m.	
<b>A</b>	Calculate the mechanical ener	rgy of the ball if its weight is	5 newton and has a mass 0.5 Kg	j.
D			ذا العمل حصرى على موقع ذاكرولى التعليـ مزيد من أعمالنا الحصريــــــــــــــــــــــــــــــــــــ	
111	كتاب المعامب	man and many	الصف الامار الاعدادي	1

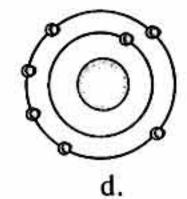


3. Which of the following atoms represents an excited atom ...?









- 4. Amoeba, euglena and paramecium differ from each other in the .....
  - a. number of teeth.

b. number of legs.

c. kind of support.

- d. way of movement.
- 5. ..... insect exactly looks like the plant branches.
  - a. Stick

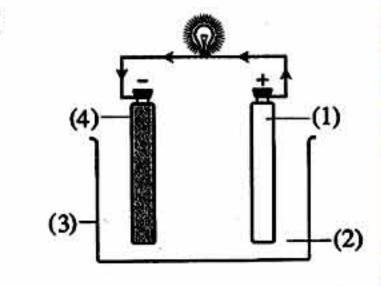
b. Beetle

- c. Leaf
- d. Locust
- Your classmate has seen a bird, he doesn't knows this bird's name but he managed to describe it as a bird with a sharp beak and the legs end in fingers with strong claws. According to your classmate story, answer the following questions:
  - 1. What is the type of adaptation in both the beak and leg of this bird?
  - 2. How many fingers are in each leg?
  - 3. What type of food does this bird feed on?

#### Question A

Put (
 ✓) or (
 ★) for each of the following:

- 1. The fuel inside the car is similar to the food inside the body of a living organism. ( )
- 2. Heat is transferred in solid materials by radiation. ( )
- 3. When air is cooled, density decreases, so it falls down.
- 4. No change in the potential energy when the object moves horizontally. ( )
- 5. Gymnosperms are classified into monocotyledon and dicotyledon plants. (
- 6. Smell property is a distinguishing factor between perfume and ammonia. (
- (B) From the opposite figure answer the following questions:
  - 1. Mention the name of the opposite device.
  - 2. Label the fig.
  - 3. Mention the idea of its operation.



क्रिकार्यहरूका इंग्रिकार्यक्र

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#### Question

3

- Give reasons for each of the following:
  - Disappearance of a little amount of table salt when it is put in a beaker containing water for a period of time.
  - 2. The atom is electrically neutral.
  - 3. The kinetic energy will increase four times as the speed of the moving object is doubled.
  - 4. Car exhaust is considered from the negative effects of technological applications.
- Answer the following:
  - 1. The teacher advised the pupils to lie on the ground when the smoke emitted from any fire. What is your interpretation of the teacher's advise in the light of your understanding of the concept of transferring the heat by convection?
  - 2. The opposite figure represents a part of a plant.
    - a. What is the difference between this plant and bean plant?
    - b. What is the similarity between this plant and cycas plant?
    - c. Mention another example in the same classification of this plant.

#### Question

4

- Write the scientific term for each of the following sentences:
  - 1. The modification in the behavior of a living organism at specific times of the day or year.
  - The branch of biology that searches for the similarities and differences among living organisms.
  - 3. A group of animals that have one pair of incisors in each jaw.
  - 4. Energy is neither created nor destroyed, but it is converted from one form to another.
- B Write the symbol of the following elements:
  - 1. Potassium.
- 2. Aluminium.
- 3. Chlorine.
- 4. Nitrogen.
- A stone, whose mass is 5 kg. is thrown from a height of 8 m. find its potential energy and its kinetic energy:
  - 1. at the beginning of fall.
  - 2. After reaching at a height of 2 m.
  - 3. When the stone reaches the Earth.

(Knowing that the acceleration due to gravity =  $10 \text{ m/sec}^2$ .).







**Port Said Governorate** 

Port Said Integrated Language Schools

Answer the following questions:

#### Question

Complete the following statements:

- 1. The front limbs of dolphins are modified into ...... to take the role of ......
- 2. ..... and ..... are from micro-organisms.
- 3. Heat is transferred through liquids by ....., while through space by .....
- 4. The ...... belongs to insects, whereas the ..... belongs to arachnids.
- 5. An alloy of ...... is used in making jewels, while an alloy of ..... is used in making heating coils.
- 6. In the dynamo, ..... energy changes into ..... energy.
- Draw the electronic configuration for each of the following elements:
  - 1. 40Ar

2. 7Li

- 3. 24Mg

- Give reasons for each of the following:
  - Some plants pounce and predate insects.
  - You feel hot when you touch a hot metallic spoon.
  - 3. Atom is electically neutral.
  - 4. Inert gases can't share in chemical reactions.

## Ouestion

Write the word(s) that represent(s) each of the following (scientific term):

- 1. The temperature at which matter starts to change from solid to liquid.
- Ability to do work or to make a change.
- 3. The branch of biology that searches for the similarities and differences among living organisms.
- 4. The sum of potential and kinetic energies.
- 5. The ability of some living organisms to be hidden from enemies or to capture the preys.
- D In an experiments to determine water density, the following results are recorded:
  - 1. Mass of an empty glass beaker = 56 g.
  - 2. Mass of the beaker containing water = 156 g.
  - 3. Volume of the water measured by a graduated cylinder = 100 cm<sup>3</sup>. Calculate the water density.



Write the electronic configuration of following elements:

1.<sub>17</sub>C

2. 13Al

3. 10Ne

Detect the inactive atom during chemical reactions (Give reason).

When a piece of iron its mass 156 gm. is put in a graduated cylinder containing 100 cm<sup>3</sup> of water the reading becomes 120 cm<sup>3</sup> Calculate the density of iron.



## Question

#### Write the scientific term for the following:

- 1. The number of negative electrons in the energy levels around the nucleus of the atom.
- 2. The limited amount of energy needed or loss to transfer an electron from an energy level to another.
- The ability of some living organisms to be hidden from their enemies.
- The process by which some animals hide in burrows to overcome low temperature.
- The temperature at which a matter begin to change from the liquid state to gaseous state.

التب ذاكرولي في البحث وانض لجروبات ذاكرولي هن رياض الاطفال للصف الثالث الاعدادي

It is a basic classification unit for living organism.

#### B Give one difference between each of the following:

- 1. Bean plant and maize plant.
- Neutron and proton.
- 3. Fish and snail.
- Intermolecular forces in solids and in gases.

#### Write the symbols of the following elements:

- 1. Calcium.
- 2. Silver.

3. Zinc.

4. Potassium.

#### Give reasons for :

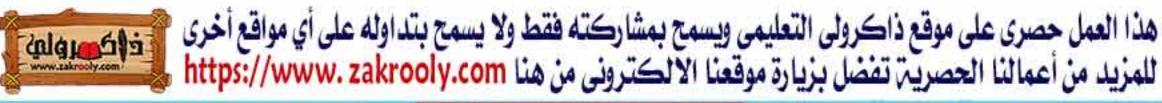
- 1. The atom is electrically neutral.
- Drosera plant pounces insects.
- 3. It is easy to divide an amount of water into small droplets.
- 4. Some birds have long thin beaks and long thin legs.

#### What is meant by ...?

- 1. Adaptation.
- 2. The excited atom.

#### What happens when ...?

- 1. The front teeth of hedgehog are not extending outwards.
- Doubling the height of an object (concerning its potential energy).
- 3. Using water to extinguish petrol fires.





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	4. Holders of light bulbs in from	n sti	reets are pair	ted from time to t	ime	in order to protect it			
	<ol> <li>The hydrogen molecule is consisted of atoms, while the argon molecule (inert gas) is consisted of atom.</li> </ol>								
	6. If the speed of an objectinto	t mo	otion increase	es into the double,	, its l	cinetic energy increases			
	7. The cockroach belongs to, whereas the scorpion belongs to								
Œ	Define :								
	1. Atom. 2.	. Spo	ecies.						
	Question 2								
4	Correct the underlined w	ord	s in the follo	wing statements	:				
	1. Electric energy = Poter	ntia	l energy + K	inetic energy.					
	2. Wind is a permanent so	ourc	e of energy.						
	3. Ammonia consists of o	ne o	xygen atom	and two hydroger	n ato	m.			
	4. Lagomorphs have one pair of incisors in each jaw.								
	<ol> <li>Mass number is known as the number of protons existed in an atom nucleus of an element.</li> </ol>								
	6. An atom third level is sa	atur	ated with 8 e	lectrons.					
Œ	Show one difference between each of the following :								
	1. The element and compo	ounc	l.,						
	2. Beans and wheat.					Y AS AS			
G	Write the symbols of the	foll	owing elem	ents :					
	1. Potassium. 2. C	Gold	i.	3. Magnesium.		4. Aluminium.			
	Duestion 3								
4	Write the scientific term	for	each of the	following statem	ents	} ● ●			
	1. A modification in a living	ng c	organism or i	ts body structure of	or ev	en the biological function			
	of its organs to become	mo	re adapted to	the environmenta	ıl coı	nditions where it lives in.			
	2. The temperature at which	ch n	natter change	s from a solid pha	ase ir	nto a liquid one.			
	3. Energy is neither create	d no	or destroyed	but can be transfo	rmec	l into another form.			
	4. A form of energy which	tra	nsfers from h	nigher temperature	to a	lower one.			

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6. The simplest pure form of a matter which can't be analyzed simpler.

5. The ability to do work.

# 21 El-Minia Governorate

New Minia Governmental Language School

#### Answer the following questions:

## Ouestion 1

tab choose the confect answer		Choose	the	correct	answer
-------------------------------	--	--------	-----	---------	--------

- 1. ..... belongs to the animals with no body support.
  - a. Octopus
- b. Mussel
- c. Hedgehog
- d. Snake
- 2. Dynamo converts mechanical energy into ..... energy.
  - a. electrical
- b. nuclear
- c. solar
- d. chemical
- 3. An object of mass 2 kg is moving at speed of 4 m/s. has kinetic energy of ........... J.
  - a. 16

b. 64

- c. 32
- d. 4

- 4. ..... is a permanent source of energy.
  - a. Wind

b. Coal

- c. The Sun
- d. Water

#### B Write the chemical symbol of:

1. Iron.

2. Silver.

- 3. Sodium.
- 4. Calcium.

#### Give reasons for :

- 1. The atom is electrically neutral in its ordinary state.
- 2. The heater is placed on the ground.
- 3. Camel limbs end in a thick flat pad.

## Question:

#### 2

#### Complete the following statements:

- 1. Heat is transferred through milk by .....
- 2, ...... and ...... are from plants that reproduce by spores.
- 3. Attraction force among the molecules of mercury is ......
- 4. The front limbs of whale are modified into ...... for ......
- 5. One of the harmful effects of mobile networks is ...... pollution.

#### B Give one difference between each of the following:

- 1. Bean plant and maize plant.
- 2. Ammonia molecule and nitrogen molecule.



An object of density 0.5 gm/cm<sup>3</sup> and volume 10 cm<sup>3</sup>. Find its mass ? And if you know the density of water is 1 gm/cm<sup>3</sup>. Does this object sink in water ? And why ?

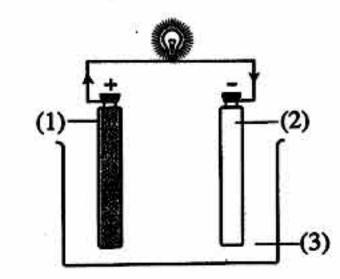
## Question

- Write the scientific term :
  - 1. The heat state of an object on which the transfer of heat from or to the object depends.
  - 2. The temperature at which the matter begins to change from the solid state to the liquid state.
  - Energy is neither created nor destroyed but it can be transformed into another form.
  - The ability of some body organs and tissues to do a certain function.
- What happens when ...?
  - 1. The beaks of ducks are narrow and not indented.
  - 2. The electron gains a quantum of energy.
  - Using of water in putting out petrol fires.
  - 4. The height of an object is doubled (according to potential energy).
- Mention one example of each of the following:
  - 1. An insectivorous plant.
- 2. Camouflage.

## Question

- Choose the odd word out then mention the relation between the rest:
  - $1._{7}N _{10}Ne _{9}F _{11}Na$ .
  - Mosquito Spider Cockroach Ant.
  - Iron Copper Aluminium Wood
  - Amoeba Euglena Clover Paramecium.
- Write the electronic configuration of the following atoms:
  - 1. 23Na

- 2. 40 Ca
- Look at the opposite figure, then answer:
  - Mention the name of the opposite.
  - 2. Label the figure.
  - 3. This device changes ..... energy into ..... energy.



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## **Assiut Governorate**

Assiut Directorate

Answer the following questions:

#### Question

1

#### **O** Complete the following statements:

- 1. The density is the ...... of unit volume of a substance and its measuring unit is ......
- Hydrogen molecule is composed of ...... atoms, while argon molecule is composed of ...... atom.
- 3...... is from the plants that reproduce by formation of spores, while ...... is from the plants that reproduce by formation of seeds inside cones.
- 4. Mechanical energy = ..... + .....
- 5. The whale's front limbs are modified into ...... to take the role of ......

#### **®** What is meant by ...?

- 1. Boiling point.
- 2. The potential energy of an object = 20 joules.

#### Write the symbols of the following elements:

- 1. Sodium.
- 2. Aluminium.

#### Question

2

#### Give reasons for :

- 1. A piece of ice changes into water after a period of time when it is left in air.
- 2. Some plants pounce and digest insects.
- 3. The freezer is found at the top of the fridge.
- 4. The atom is electrically neutral.

#### B Write the electronic configuration of the following elements, then:

- 1. 7Li
- 2. <sup>24</sup><sub>12</sub>Mg
- Find the number of electrons in the outermost energy leve! in each atom.
- Calculate the number of neutrons in each atom.
- What is the mass of a body, whose kinetic energy is 64 joules and its speed is 4 m/sec?



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_					
<b>6</b>	Choose	the	correct	answer	:

a. iron and copper.

b. wood and plastic.

c. iron and wood.

d. no correct answer.

- 2. An object of 20 N. weight and it is placed at a height of 5 m., so its potential energy is ..... joules.
  - a. 50

b. 150

c. 100

d. 200

- 3. If you sit down beside an electric heater, heat is transferred to you by .....
  - a. convection.

b. radiation.

c. conduction.

d. convection & radiation.

- 4. Scorpion belongs to .....
  - a. insects.
- b. arachnids.
- c. myriapods.

d. mammals.

- 5. The sum of the number of protons and neutrons in the nucleus of the atom is known as .....
  - a. atomic number.
- b. valency.
- c. mass number.

d. density.

- B Give an example of each of the following:
  - 1. Hibernation in amphibia.
  - Camouflage in insects.
- Mention the difference between each of the following:
  - Rabbit & squirrel.

2. Bean & wheat.

#### Question

#### Write the scientific term:

- 1. A group of animals that have three pairs of jointed legs.
- 2. A form of energy which is transferred from the object of higher temperature to that of lower temperature.
- 3. A set similar animals in their shape and can get intermated together to produce fertile individuals.
- 4. The fundamental building unit of matter that can take part in the chemical reaction.
- Write the odd out and write the scientific term of others :
  - 1. Wheat Pea Corn Bean Pine.
  - Lion Tiger Dog Wolf Armadillo.
- State the energy transformation in each of the following:
  - 1. Dynamo.
- 2. Electric lamp.
- 3. Motor.
- Electric bell.



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2. Calcium.

3. Potassium.

4. Chlorine.

## Give an example for:

- 1. Camouflage in insects.
- 2. Aestivation in rodents.
- A device changes kinetic energy into electric energy.
- 4. A permanent source of energy.

## Question

#### Write the scientific term:

- 1. Energy gained or lost to transfer an electron from one energy level to another.
- 2. Energy is neither created nor destroyed but it can be transformed into another form.
- The basic unit of classification in living organisms.
- Number of positive protons in nucleus of the atom.
- Energy stored in the object due to the work done on the object.
- Plants can't be distinguished into roots, stems and leaves.

#### B Give reasons for :

- 1. The heater is put at the bottom of the room.
- Workmen melt the solid metals.
- 3. Atom is electrically neutral.
- Some animals hibernate in winter.



الصف الأول الأعدادي والكاظكول التعليم

كتاب المعامب

الصف الأول الأعدادي مركم الكراج الكراجي

كتاب المعامب

الصف الأول الأعدادي صح الكول التعليم

What would happen when ...?